



IAAF CERTIFICATION SYSTEM

REPORT OF SYNTHETIC SURFACE PRODUCT TEST

This form must be sent to: technicalofficer@iaaf.org

Address (for sending product samples):
IAAF, Att. Technical Manager, 6-8 Quai Antoine 1er - MC 98000 Monaco.

To obtain an IAAF Product Certificate for a synthetic surface product, the material must have been proven to conform to the IAAF Track and Runway Synthetic Surface Testing Specifications. The testing must be undertaken by an IAAF Accredited Laboratory for Synthetic Surface Testing using equipment and testing procedures in accordance with the said Specifications and the results of the testing must be recorded on this pro-forma.

Four sample pieces of the product, each at least 0.5m x 0.5m, should be supplied to the laboratory by the manufacturer. (One sample for testing and three samples for retention by the laboratory under the direct control of the IAAF.)

SYNTHETIC SURFACE PRODUCT		
Product's Trade Name:	Rekortan BS	
Manufacturer:	Sport Group Holding GmbH	
Address:	109 Conica Lane, Harmony	
City and Postal (ZIP) Code:	16037	
State or Province:	PA	
Country:	USA	
Telephone:	724-425-1330	
E-mail:	McManus@advpolytech.com	
Material Supplier(s):		
Basic Description	<input type="checkbox"/> Full Polyurethane	<input checked="" type="checkbox"/> Spray-coat System
	<input type="checkbox"/> Sandwich System	<input type="checkbox"/> Prefabricated
	<input type="checkbox"/> Other:	
	<input checked="" type="checkbox"/> Porous	<input type="checkbox"/> Non-porous
Description of Surface Composition		Appr. Thickness
Top Layer / Texture:	Polyurethane Structural spray	2 mm
Middle Layer(s):		
Bottom Layer:	PU Binder and SBR Rubber Basemat	11 mm

TESTING	
Testing Laboratory:	LABOSPORT FRANCE
Date of Test:	April 2017
Tester(s)' Name(s):	Florian Deu - Steve Bazeille
	Thomas Amadei
Test Report Nbr.:	R170704-A3

CONTENTS

A. LABORATORY TESTING..... 3

- 1. DIFFERENCE BETWEEN OVERALL THICKNESS AND ABSOLUTE THICKNESS3**
- 2. TESTING AT STANDARD LABORATORY TEMPERATURE.....3**
- 3. THE EFFECT OF TEMPERATURE ON SHOCK ABSORPTION AND VERTICAL DEFORMATION....3**
- 4. FRICTION (COEFFICIENT OF FRICTION OR TRRL SCALE READING).....**
- 5. TENSILE TESTS.....4**

B. ATTACHMENTS..... 5

C. CONCLUSIONS..... 5

Product Name:	Rekortan BS	Date of Test:	April 2017
----------------------	--------------------	----------------------	-------------------

A. Laboratory Testing

1. Difference between Overall Thickness and Absolute Thickness (in mm to 0.1mm)

Thickness	Test 1	Test 2	Test 3	Test 4*	Test 5	Test 6	Average
Overall	14.4	14.2	14.3	14.1	14.4	14.2	14.3
Absolute	13.1	13.0	13.1	12.9	13.1	12.9	13.0
Difference	1.3	1.2	1.2	1.2	1.3	1.3	1.3

*A minimum of four thickness measures shall be taken.

2. Testing at Standard Laboratory Temperature^Ø

Recorded Test Drop No.*	Thickness (absolute) mm (to 0.1)	Sample temperature °C	Shock Absorption % (whole)	Vertical Deformation mm (to 0.1)
1	13.0	23	38	1.7
2	13.0	23	38	1.8
3	13.0	23	38	1.8
Averages	13.0	23	38	1.8

^Ø Additional testing at other locations on the sample may be undertaken and recorded.

*The average result is determined from two recorded results for FR and three recorded results for VD in accordance with the Test Protocols

Do any of the individual Shock Absorption and/or Vertical Deformation results fall outside the allowable ranges of 35% to 50% and 0.6mm and 2.5mm for Shock Absorption and Vertical Deformation respectively?

YES NO

3. The Effect of Temperature on Shock Absorption and Vertical Deformation

Thickness (absolute)* mm (to 0.1)	Intended sample temperature °C	Actual sample temperature °C	Shock Absorption % (whole)	Vertical Deformation mm (to 0.1)
13.0	0	0	35	1.3
13.0	10	10	36	1.5
13.0	20	20	38	1.8
13.0	23	23	38	1.8
13.0	30	30	39	2.1
13.0	40	40	40	2.2
13.0	50	50	41	2.4

*the absolute thickness should be the same for all temperatures

Do any of the individual Shock Absorption and/or Vertical Deformation results in the temperature range 10°C to 40°C fall outside the allowable ranges of 35% to 50%, and 0.6mm and 2.5mm for Shock Absorption and Vertical Deformation respectively?

YES NO

If the answer is YES, then the manufacturer should be advised so that they can make the necessary arrangements to ensure that their surface will not fail an in-situ test because of temperature effects on the properties.

Product Name:	Rekortan BS	Date of Test:	April 2017
----------------------	--------------------	----------------------	-------------------

4. Friction (Coefficient of Friction or TRRL Scale reading)

Test No.	Friction Reading*
1	64
2	63
3	62
4	62
5	62
Average	63

**Average of five readings for the TRRL Pendulum or the average of three readings for the Sliding Resistance Tester.*

Are any of the individual friction readings less than TRRL Scale reading of 47 or coefficient of Friction 0.5? (If so highlight the readings in **BOLD**.)

YES NO

5. Tensile Tests

Property	Unit	Specimen No*						Average
		1	2	3	4	5	6	
Tensile Strength	Mpa mm (to 0.01)	0.52	0.55	0.54	0.53	0.55	0.54	0.54
Elongation	% (whole)	42	42	41	43	45	43	43

**A minimum of four specimens shall be tested.*

Is the average Tensile Strength or the average Break Elongation % less than 0.5Mpa for non-porous surfaces and 0.4MPA for porous surfaces, and 40% respectively?

YES NO

Product Name:	Rekortan BS	Date of Test:	April 2017
----------------------	--------------------	----------------------	-------------------

B. Attachments

- A reference sample of 10cm x 10cm of the material tested is to be supplied with the report to the IAAF.

C. Conclusions

The synthetic surface product was tested in accordance with the IAAF Track and Runway Synthetic Surface Testing Specifications as incorporated in the IAAF Track and Field Facilities Manual.

I hereby certify that all information provided in the report is accurate and is the result of well-conducted laboratory testing.

I consider that the synthetic surface product meets the requirements for an IAAF Product Certificate.

YES NO

If the answer is NO, please state below the reason(s) why the synthetic surface product does not meet the IAAF Track and Runway Synthetic Surface Testing Specifications fully.

Date:	07/10/2020
Authorised Director's Name:	Benoît BOSSUET
Signature:	