



IAAF CERTIFICATION SYSTEM

REPORT OF SYNTHETIC SURFACE PRODUCT TEST

This form must be sent to: INTERNATIONAL ASSOCIATION OF ATHLETICS FEDERATIONS
 Attention: Technical Manager
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To obtain an IAAF Product Certificate for a synthetic surfacing material, the product must have been proven to conform to the specifications in the IAAF Track Facilities Testing Protocols. The testing must be undertaken by an IAAF Accredited Laboratory for Synthetic Surface Testing using equipment and testing procedures in accordance with the IAAF Track Facilities Testing Protocols and the results of the testing must be recorded on this proforma.

TESTING		
Testing Laboratory:	Kiwa ISA Sport B.V.	
Date of Test:	November 2014	
Tester(s)' Name(s):	R. Janssen	
Test Report No.:	141001127	
TRACK SURFACE PRODUCT		
Product's Trade Name:	AstroTrack 17	
Manufacturer:	ASI Astro Group	
Address:	2006 Damac Smart Heights, off Hessa Street Tecom Dubai, United Arab Emirates	
Telephone:	+971 4 2775962	
Fax:	+971 4 2775963	
E-mail:	astrotrack@asi-astro.com	
Material Supplier(s):	Gezolan Swiss epdm, German PVP sbr and BASF Urethanes	
Basic description	<input type="checkbox"/> Full polyurethane	<input checked="" type="checkbox"/> Spraycoat system
	<input type="checkbox"/> Sandwich system	<input type="checkbox"/> Polyurethane on rubber
	<input type="checkbox"/> Other:	
Description of Surface Composition		Appr. Thickness
Top Layer/Texture:	spray coat	2.5
Middle Layer(s):		
Bottom Layer:	semi-pore sealed with basemat	12

Four sample pieces of the product, each at least 500mm x 500mm, should be supplied to the laboratory by the manufacturer. (One sample for testing and three samples for retention by the laboratory and the IAAF.)

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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	15.0	16.6	15.4	17.0	18.0	15.3	16.2
Absolute	14.6	15.9	15.1	16.7	17.6	14.8	15.8
Difference	0.4	0.7	0.3	0.3	0.4	0.5	0.4

*A minimum of four thickness measures shall be taken.

2. Testing at Standard Laboratory Temperature ⁰

Recorded Test Drop No.*	Thickness (Absolute) mm	Sample Temperature °C	Force Reduction %	Vertical Deformation mm
1	15	23	47	2.4
2	15	23	46	2.5
3	15	23		2.4
Averages	15	23	47	2.4

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

⁰ Additional testing at other locations on the sample may be undertaken and recorded.

Do any of the individual force reduction and/or vertical deformation results fall outside the allowable ranges of 35% to 50% and 0.6mm and 2.5mm for force reduction and vertical deformation respectively?

YES NO

3. The Effect of Temperature on Force Reduction and Vertical Deformation

Thickness (Absolute) mm	Intended Sample Temperature °C	Actual Sample Temperature °C	Force Reduction %	Vertical Deformation mm
15	0	1.0	47	2.4
15	10	10.2	47	2.4
15	20	20.0	47	2.4
15	23	22.6	47	2.4
15	30	29.8	47	2.4
15	40	39.7	47	2.5
15	50	49.7	48	2.5

Do any of the individual force reduction 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 force reduction 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 surfacing will not fail an in-situ test because of temperature effects on the properties.

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

Test No.	Friction Reading*
1	51
2	49
3	53
4	54
5	53
Average	52

*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	Sample No*						Average
		1	2	3	4	5	6	
Tensile Strength	Mpa	0.72	0.64	0.69	0.68	0.67	0.60	0.67
Elongation	%	100	72	86	78	96	91	87

*A minimum of four specimens shall be tested.

Are 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

Attachments

- One reference sample of the material tested is to be supplied with the report to the IAAF.

Conclusions

The synthetic surfacing material was tested in accordance with the IAAF Track Facilities Protocols 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 surfacing material meets the requirements for an IAAF Product Certificate.

YES NO

If the answer is NO please state below the reason(s) why the track surfacing material does not meet the specifications in the IAAF Track Facilities Testing Protocols fully.

Date:	2 nd March 2015
Authorised Director's Name:	T.A. Joosten
Signature:	