



中国认可
国际互认
检测
TESTING
CNAS L11342



TEST REPORT

Performance Tests for Synthetic Surfaces Intended for Multi-Sports Facilities
According to EN 14877:2013 Synthetic surfaces for outdoor sports areas - Specification

Interlocking Sports Flooring

Hebei Enlio Sports Goods Co., Ltd

LABORATORY TEST REPORT N°: LSA-R24552-A1

Test Date: 2024.09.23-2025.01.17

Report Date: 2025.02.07

This report contains 5 pages in total.

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1. CLIENT DETAILS

Company: Hebei Enlio Sports Goods Co., Ltd

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Date of order: 2024.09.20

2. TESTING PROGRAM

Guangzhou Labosport has been commissioned by **Hebei Enlio Sports Goods Co., Ltd** to carry out laboratory tests on the sport flooring named **Interlocking Sports Flooring**.

Technical requirements criteria considered in this report refer to the standard:

-EN 14877:2013 Synthetic surfaces for outdoor sports areas - Specification - Table 3 - Synthetic surfaces intended for multi-sports facilities

-The following tests have been carried out on the surface in accordance with the following standard/test methods:

-Friction.....	EN 13036-4:2011 (CEN rubber & Dry/Wet)
-Shock Absorption.....	EN 14808:2005
-Vertical deformation.....	EN 14809:2005
-Vertical ball rebound.....	EN 12235:2013 (using a basketball)
-Water permeability.....	EN 12616:2022 Part 1 Method A
-Resistance to wear.....	ISO 5470-1:2016 (using H18 wheels with a 1 kg load)
-Resistance to UVA.....	EN 14836:2018 (method 1)
-Colour loss.....	EN ISO 20105-A02
-Tensile properties.....	EN 12230:2022 Method 1
-Accelerated ageing by hot air.....	EN 13817:2004
-Accelerated ageing by hot water.....	EN 13744:2004
-Thickness.....	EN 1969:2000

Dimensions of the tested samples conform to the testing standards.

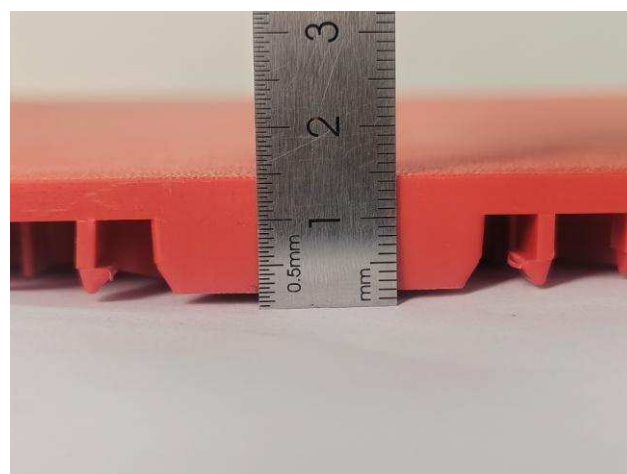
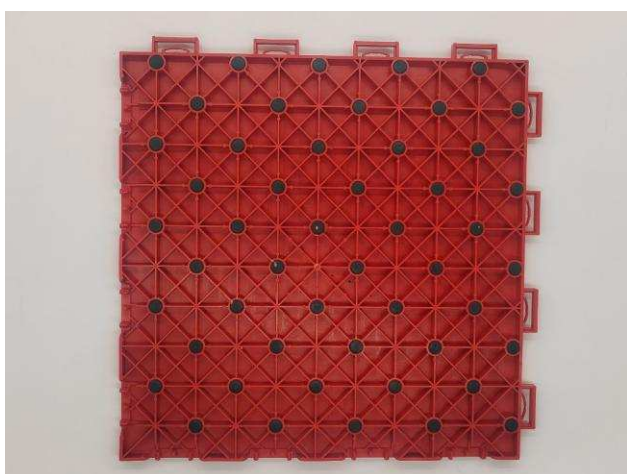
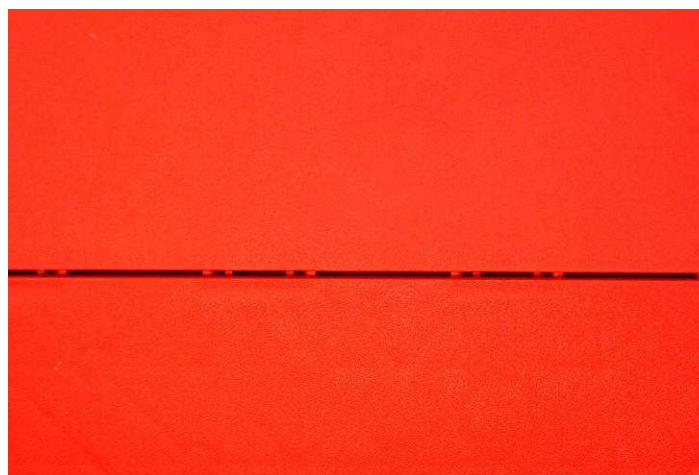
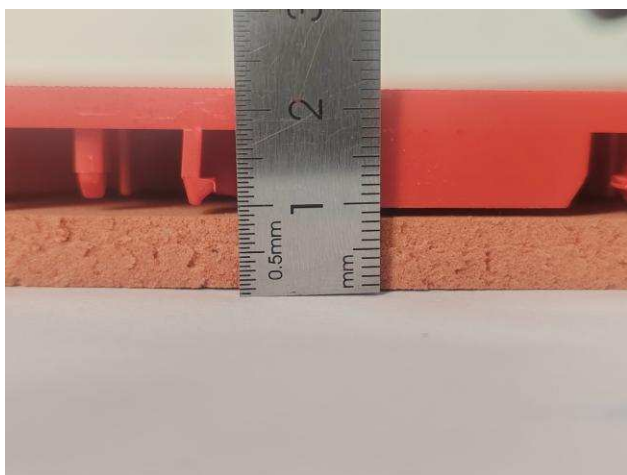
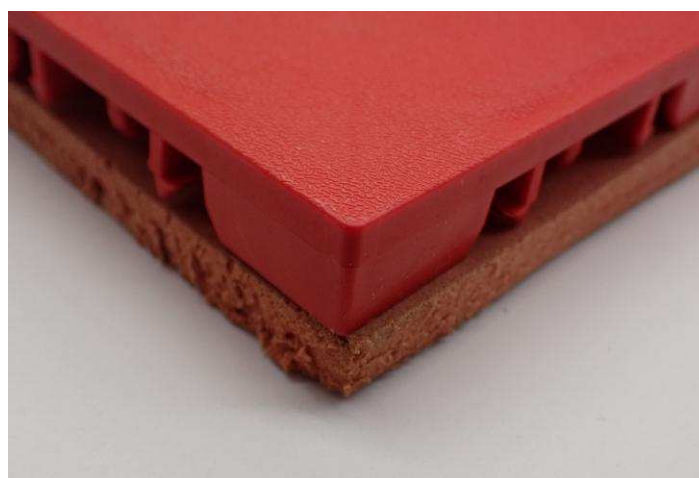
Samples were tested in accordance with the client's instructions (installation conditions, laying type).

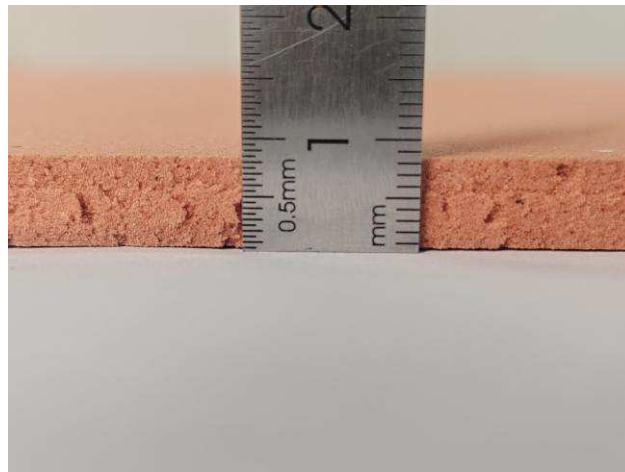
-Tests were realized in laboratory where temperature and humidity are controlled.

-The tests conditions were:

Temperature (°C)	23 °C ± 2 °C
Air humidity (%)	50 % ± 5%

3. SAMPLES DETAILS (client declaration)





Product name	Interlocking Sports Flooring ^①
Sport Facilities	Multi-sports-facilities ^①
Thickness	Interlocking 15mm; Red Shockpad 8mm ^①
Internal Reference	S24552-1/ S24552-2

^① Above product declaration is provided and confirmed by Hebei Enlio Sports Goods Co., Ltd.

4. TESTS RESULTS

Properties	Methods	Units	Conditions	Results	Requirements
Friction	EN 13036-4 CEN Rubber	-	Dry, 23±2 °C	95	80 – 110
			Wet, 23±2 °C	31 ^②	55 – 110
Shock Absorption	EN 14808	%	Dry, 23±2 °C	40	25 – 75 (Classification SA 35 to 44)
			After A/W Ageing ^③ , 23±2 °C	39	
Vertical deformation	EN 14809	mm	Dry, 23±2 °C	2.4	≤ 6
Vertical ball rebound	EN 12235	%	Dry, 23±2 °C Basketball	92	≥ 97
Water permeability	EN 12616	mm/h	23±2 °C	Impermeable ^④	≥ 150
Resistance to wear	ISO 5470-1	g	Unaged, 23±2 °C	0.141	≤ 4.0 of mass loss between 500 and 1,500 cycles
			After Ageing UVA ^⑤	0.139	
Colour change	EN ISO 20105-A02	-	After Ageing UVA ^⑤	4	≥ 3
Tensile properties	EN 12230	Mpa	Unaged, 23±2 °C	>3.00 ^⑥	≥ 0.40
			After A/W Ageing ^③ , 23±2 °C	>3.00 ^⑥	
Elongation at break	EN 12230	%	Unaged, 23±2 °C	>40 ^⑥	≥ 40
			After A/W Ageing ^③ , 23±2 °C	>40 ^⑥	
Thickness-Top layer	EN 1969 (method A)	mm	23±2 °C	15.3	Total ≥ 7
Thickness-Bottom layer	EN 1969 (method A)	mm	23±2 °C	8.0	

^② Not suitable for wet conditions.

^③ After A/W Ageing-After accelerated ageing by hot air and hot water.

^④ Note: the top layer made of interlocking tiles is a hollow design with good horizontal drainage capacity.

^⑤ Test according to EN 14836:2018 (Method 1).

^⑥ The sample was not broken under the maximum capacity of 2000N of the tensile machine.

REPORTED BY:



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APPROVED BY:



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TECHNICAL MANAGER

~~~~~The End~~~~~