



TEST REPORT

No.: HQR160517001R01

Dated: July 6, 2016

Order No. :	160222051207
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Applicant:

Shijiazhuang Enlio Sports Goods Co.,Ltd
10-409, No.266 Tianshan St.Shijiazhuang.
Hebei.China

Manufacturer:

Shijiazhuang Enlio Sports Goods Co.,Ltd
10-409, No.266 Tianshan St.Shijiazhuang.
Hebei.China

Test subject (Sample):

PVC Sports Flooring

Model:

Drop-Rain

Date of sample receipt:

2016/05/17

Date of testing:

2016/05/18 to 2016/07/05

Head of accredited

ORGANIZATION FOR TECHNICAL CONFORMITY

Testing laboratory:

Stamp:

ORGANIZATION FOR TECHNICAL CONFORMITY



Report prepared by:

Report Approved by:



1. TESTING CRITERIA

EN 14904-2006 Surfaces for sports areas — Indoor surfaces for multi-sports use — Specification
With test method of below standards:

EN 14808-2005 Surfaces for sports areas Determination of shock absorption

EN 14809-2005 Surfaces for sports areas — Determination of vertical deformation

EN 13036-4:2011 Road and airfield surface characteristics. Test methods. Method for measurement of slip/skid resistance of a surface. The pendulum test.

EN 12235-2013 Surfaces for sports areas — Determination of vertical ball behaviour

EN ISO 5470-1-1999 Rubber- or Plastics-Coated Fabrics - Determination of Abrasion Resistance - Part 1: Taber Abrader

EN 1517-1999 Surfaces for sports areas - Determination of resistance to impact

EN 1569-1999 Surfaces for sports areas - Determination of the behaviour under a rolling load

EN 1516-1999 Surfaces for sports areas - Determination of resistance to indentation

EN ISO 2813-2014 Paints and varnishes - Determination of gloss value at 20 degrees, 60 degrees and 85 degrees

EN 13501-1-2007 Fire classification of construction products and building elements - Part 1:
Classification using data from reaction to fire tests

2. SPECIFICATION OF SUBJECT OF TESTING (Given by the applicant)

2.1 Specification of samples

Color: Blue.

Overall thickness: 7.0mm.

Purpose of the products: Applied to Sports Area

3. LABORATORY DECLARATION

The test results refer only to the tested product.

The test report may not be duplicated except in full without the written consent of the testing laboratory.

The client ordering the tests has a right to submit comments on the test results specified in this report of the accredited testing laboratory ORGANIZATION FOR TECHNICAL CONFORMITY within 15 days of the report delivery.

4. CONCLUSION

This product has been type-tested according to the above standards. See following test results for detail.

5. TEST RESULTS

5.1 Force Reduction

Pass

Criteria: 25%~75%

EN 14808-2005 Surfaces for sports areas Determination of shock absorption

Test data:

No.	1	2	3	4	5	Average
Results (%)	26.6	26.6	26.7	26.6	26.7	26.6

5.2 Vertical Deformation

Pass

Criteria: ≤5.0mm

EN 14809-2005 Surfaces for sports areas — Determination of vertical deformation

Test data:

No.	1	2	3	4	5	Average
Results (mm)	0.8	0.8	0.9	0.9	0.8	0.8

5.3 Friction

Pass

Criteria: 80~110

EN 13036-4:2011 Road and airfield surface characteristics. Test methods. Method for measurement of slip/skid resistance of a surface. The pendulum test.

Test data:

No.	1	2	3	4	5	Average
Results	103	103	103	102	103	103

5.4 Vertical ball behaviour

Pass

Criteria: ≥90%

EN 12235-2013 Surfaces for sports areas — Determination of vertical ball behaviour

Test data:

No.	1	2	3	4	5	Average
Results (%)	99	98	100	101	101	100

5.5 Resistance to wear

Pass

Criteria: ≤1000mg/1000r

EN ISO 5470-1-1999 Rubber- or Plastics-Coated Fabrics - Determination of Abrasion Resistance - Part 1:

Taber Abrader

Test data:

No.	1	2	3	4	5	6	Average
Mass loss (mg)	21	22	36	32	30	25	28

5.6 Resistance to indentation

Pass

Criteria: ≤0.5mm

EN 1516-1999 Surfaces for sports areas - Determination of resistance to indentation

Test data:

No.	1	2	3	Average
Results (mm)	0.25	0.27	0.28	0.27

5.7 Resistance to impact

Pass

Criteria: There shall be no perceivable cracking, splitting, delamination or permanent indentation of the test piece.

EN 1517-1999 Surfaces for sports areas - Determination of resistance to impact

Test data:

Item	Results
Resistance to impact	There is no perceivable damage and permanent indentation

5.8 Resistance to a rolling load

Pass

Criteria: No cracking or other damage, and the indentation is not greater than 0.5 mm.

EN 1569-1999 Surfaces for sports areas - Determination of the behaviour under a rolling load

Test data:

Item	Indentation	Results
Resistance to a rolling load	Nothing	There is no perceivable damage

5.9 Reaction to fire

Pass

EN 13501-1-2007 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

Test data:

Item	Classification criteria	Results
Reaction to fire (C _{f1} Class)	Critical flux (Kw/m ²)	≥4.5
	Flammability (Exposure=15s)	F _s (Flame spread)≤150mm with 20s
		4.6
		<150mm

5.10 Specular gloss

Pass

EN ISO 2813-2014 Paints and varnishes - Determination of gloss value at 20 degrees, 60 degrees and 85 degrees

Test data:

No.	1	2	3	4	5	6	Average	
Angle	20°	0.8	0.8	1.0	0.9	0.9	0.8	0.9
	60°	7.2	7.1	6.7	7.1	7.2	7.2	7.1
	85°	10.9	10.7	10.6	11.5	12.4	12.0	11.4

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Appendix A—Product Photos



***** End of report*****