

Report for a EPDM Rubber Flooring Insitu Testing

APPLICANT

Company		Topfloor Sports Infra Private Limited Survey No.199, Vaghroda, Village – Vaghroda, Taluka – Kadi, Mehsana, Gujarat, 382715
Contact	Mr. Lalit +919978631811 info@topfloorsportsinfra.com	

DESCRIPTION OF THE SURFACE

Manufacturer: Topfloor Sports Infra Private Limited

Product Name: SANDWICH SYSTEM (30mm)

Type of surface: EPDM sandwich system for playground



IN-SITU TEST CONDITIONS

The tests were carried out on-site on 15th October 2025

On-site conditions:

Outdoor air temperature:	30 to 35 °C
Surface temperature:	31 to 38 °C
Outdoor hygrometry:	31 to 48 %RH

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STANDARD

Designation

To determine the Head Injury Criterion (HIC) values and Critical Fall Height (CFH) of the playground surface in accordance with EN 1177:2018.

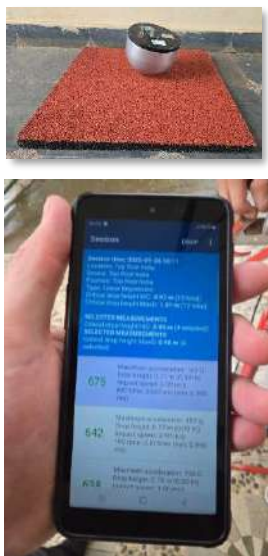
Test Method

The test was conducted by dropping an instrumented head-form from different heights onto the surface. Four (4) drops were carried out at each height, and both HIC and peak G values were recorded. Linear regression analysis was used to calculate the critical fall height corresponding to HIC = 1000.

- Impact attenuation HIC – EN 1177

Summary of the results

Parameter	Result
Critical Fall Height (HIC = 1000)	0.95 m
Result	Pass up to 0.95 m fall height



Conclusion

The playground surface sample provided by **Topfloor Sports Infra Pvt. Ltd.** meets the performance requirements of EN 1177:2018 up to a critical fall height of **0.95 m**.

Reported by:

Aayush Kumar

Accredited Testing Engineer

Email: office@acoustoscan.in

Date: 15/10/2025

Reviewed by:

Anthony Apparailly

Director

Email: anthony@acoustoscan.in

Date: 15/10/2025

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