



Sports Surface Impact Test Report

Playpave

Summary Report - HIC/GMAX testing

" Playpave Pro - 4 inch"



Report Date: Sept. 20, 2026

HIC/ GMAX Test Method -

ASTM F 1292: "Standard Specifications for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment".

Tests performed by Sabrina Thomas.

Test Equipment -

Impacting Missile : Hemispherical 4.6 kg - housing 6061-T6 aluminum alloy

Accelerometers : 6 triax x and y accelerometers

Accelerometers last calibrated March 2026.

Surface Description :

ID of Product: Playpave - Playpave Pro

Description 4" total thickness - 3 1/2" rubber buffings with 1/2" EPDM rubber cap

Air and Surface Temperature :	75° F air	Humidity: 68%
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Summary of Results : Playpave Pro - 4 inch 74° F Surface Temp

Critical Height Tested	8'	9'	10'
Average Gmax	115	120	127
Average HIC	684	729	984

Summary of Results : Playpave Pro - 4 inch 21-25° F Surface Temp

Critical Height Tested	8'	9'	10'
Average Gmax	125	130	141
Average HIC	824	925	1116

Summary of Results : Playpave Pro - 4 inch 124-121° F Surface Temp

Critical Height Tested	8'	9'	10'
Average Gmax	115	123	142
Average HIC	669	804	967

Conclusion:

Critical Height of Tested Samples: **Passed 9 feet**

Evaluation :

Test results reported herein reflect the performance of the described samples at the time of testing and at the temperatures reported.

The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently.

The Gmax is the maximum deceleration value during impact. The Head Injury Criterion (HIC) is a parameter indicating the impulse of the impact. According to ASTM F1292-22, the Critical Height is the highest full foot test height increment causing neither the average Gmax value nor the average HIC value to exceed the stated maximums of 200 for Gmax and 1000 for HIC at any of the temperatures stated.

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