

## TEST REPORT


DATE: 06-25-2024

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TEST NUMBER: 0308782

CLIENT	perkEpave, LLC.
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TEST METHOD CONDUCTED	ASTM F1292 Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment
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DESCRIPTION OF TEST SAMPLE	
DESCRIPTION OF PRODUCT TESTED	18"x18"x6" 1.5" poured in place over 4.5" of loose mulch
PHOTO	<p><b>The tested assembly meets the criterion of performance at 17.0 feet fall height according to ASTM F1292-22.</b></p> 

### GENERAL PRINCIPLE

Each panel for testing is acclimated for a minimum of 24 hours in each respective condition. NIST Traceable temperature sensors are inserted into the sample to ensure the correct temperature is achieved through the matrix. Testing is commenced within one minute of removal from the acclimation chambers. The specimen is impacted at a specified velocity with a missile of given mass of 10.1 lbs. and geometry. A transducer mounted in the missile monitors the acceleration time history of the impact, which is recorded with the aid of an oscilloscope or other recording device. The head-form was dropped at the requested height. The GMAX values, HIC (head impact criteria) are recorded for three drops. The second and third drops are averaged. Testing was conducted at three temperatures as listed on the results. The maximum criterion for passing a specified drop height is 200 gmax or 1,000 HIC.

Equipment	Accelerometer Calibration	Accelerometer Manufacturer and Type	Laboratory Conditions
GC Fall-tech	3-28-24	PCB Model 356B20	70° F and 50% RH
Date Tested	Specimen Size Tested	Requested By:	Technician
6/25/24	2.25 Square Feet	Tom Carroll	Matthew Asbury

APPROVED BY: 



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**TEST RESULTS**

Tested Dry, Frozen at 25° F	DROP 1	DROP 2	DROP 3	AVERAGE OF DROPS 2 AND 3
GMAX	109	111	116	114
HIC	862	866	874	870

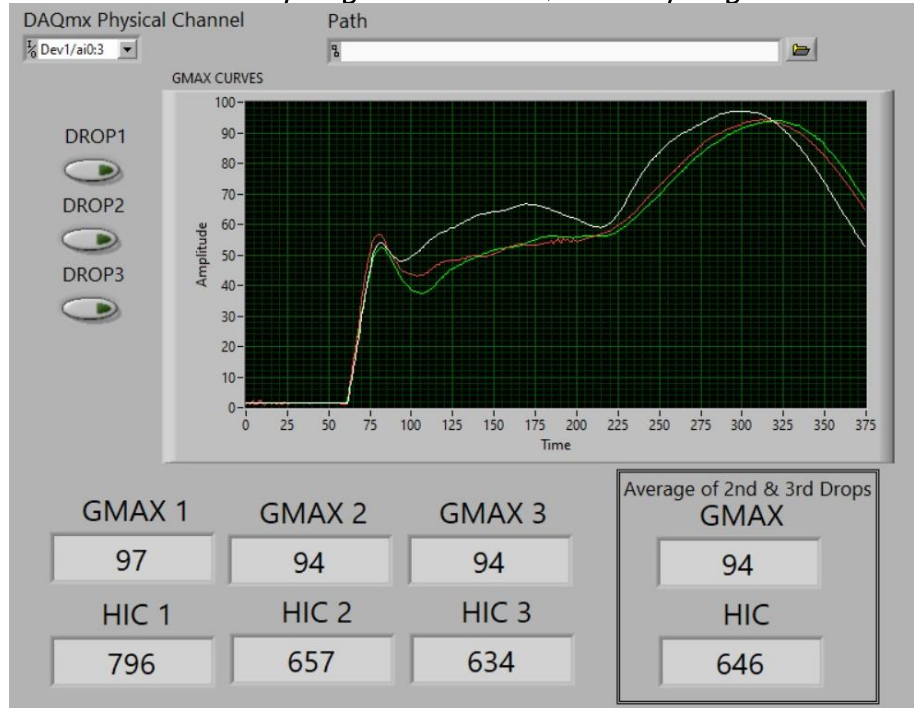
*\* Specimen subjected to a theoretical drop height of 17.0 feet. (actual drop height: 205.0 inches at 33.07 ft/sec)*

Tested Dry at 72° F	DROP 1	DROP 2	DROP 3	AVERAGE OF DROPS 2 AND 3
GMAX	97	94	94	94
HIC	796	657	634	646

*\* Specimen subjected to a theoretical drop height of 17.0 feet. (actual drop height: 205.0 inches at 33.07 ft/sec)*

Tested Dry at 120° F	DROP 1	DROP 2	DROP 3	AVERAGE OF DROPS 2 AND 3
GMAX	93	99	96	98
HIC	649	717	710	714

*\* Specimen subjected to a theoretical drop height of 17.0 feet. (actual drop height: 205.0 inches at 33.07 ft/sec)*



**COMMENTS**

"The results reported herein reflect the performance of the described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently".

Material was damaged catastrophically by the impact when exceeding 17 feet, further tests could not be performed.

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