

TEST REPORT


DATE: 06-25-2024

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TEST NUMBER: 0308783

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"x4" 1.5" poured in place over 2.5" of loose mulch
PHOTO	<p>The tested assembly meets the criterion of performance at 12.0 feet fall height according to ASTM F1292-22.</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	134	139	144	142
HIC	945	969	989	979

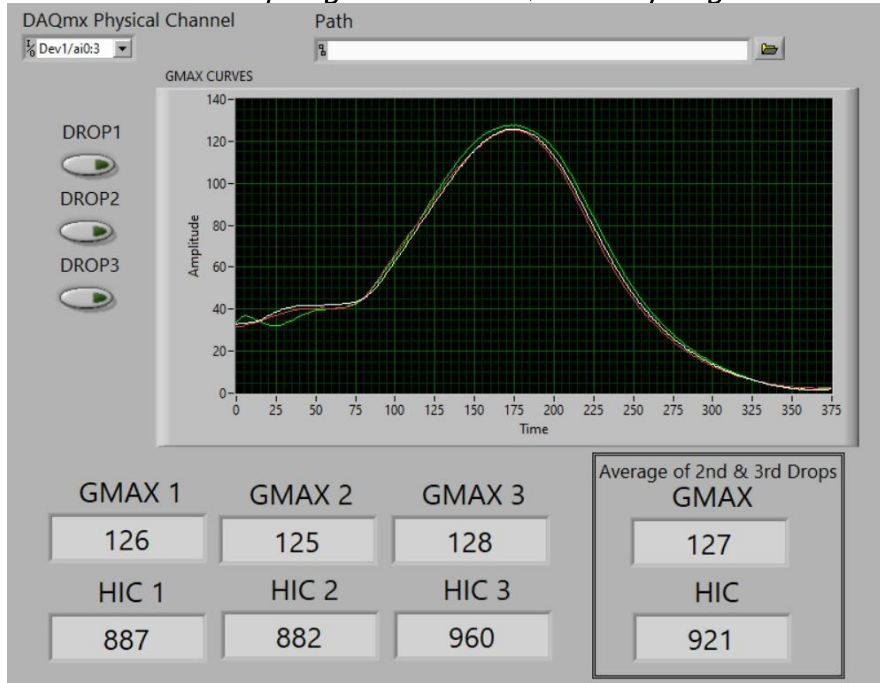
** Specimen subjected to a theoretical drop height of 11.0 feet. (actual drop height: 133.0 inches at 26.61 ft/sec)*

Tested Dry at 72° F	DROP 1	DROP 2	DROP 3	AVERAGE OF DROPS 2 AND 3
GMAX	126	125	128	127
HIC	887	882	960	921

** Specimen subjected to a theoretical drop height of 12.0 feet. (actual drop height: 145.0 inches at 27.79 ft/sec)*

Tested Dry at 120° F	DROP 1	DROP 2	DROP 3	AVERAGE OF DROPS 2 AND 3
GMAX	141	133	137	135
HIC	980	958	964	961

** Specimen subjected to a theoretical drop height of 12.0 feet. (actual drop height: 145.0 inches at 27.79 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".

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