

LABORATORY TEST REPORT

AQUA TILE HIC

Specification(s) tested:
ASTM 1292-18E1

Report Number: 90105-3025

Report Status: Final

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Aqua Tile

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Foreword

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The test results contained within this report represent the values measured on the samples received and tested under laboratory conditions and carried out per the relevant specification(s).

If the measurement lies within the lower and upper specification limit range, the result will be accepted as meeting the required criteria. If it falls outside this range, it will be rejected as non-conforming. Measurement uncertainty is not applied as a guard band in this decision-making process.

This report is not an official National Governing Body report and does not imply NGB approval.

*Some tests may not be within our current ISO 17025 scope of accreditation.

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5/4/2026

**REPORT CHECKED BY**

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5/4/2026



Introduction

Sports Labs conducted laboratory performance testing per the ASTM test method listed below.

* Note: Measurement not taken to prevent damaging testing equipment.

Test methods

- **ASTM 1292-18E1** – Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment.

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Product Details

Project Number	90105		
Product Name	Aqua Tile		
Sample Reference No(s)	3025		
System Type	Shock Pad	Date Received	4/21/26
Performance Infill	N/A	Infill Rate (lbs/ft²)	N/A
Stabilizing Infill	N/A	Infill Rate (lbs/ft²)	N/A
Underlayment	Aqua Tile	Ambient Temperature Range	69.8 – 77.0 °F
Underlayment Thickness (mm)	11	Ambient Humidity Range	40 – 60 %
Substrate	Concrete	Substrate Depth (mm)	N/A
Test Date	4/22/26	Operator	EG

☒ We confirm that we stored a 5" x 5" sample, which will be retained as necessary.



Testing Equipment

- Lavatools PT12 Thermometer
- Alpha Automation Hemispheric E-Missle
- Alpha Automation Triax 2010
- Dytran 3010M14 Accelerometer

Results Summary

System	Reference Temperature (F)			Overall CFH (ft)
	72°	25°	120°	
Aqua Tile	10.00	10.00	10.00	10"

Test Results

Ambient – 72.0°

Sample Reference Temp 72° F – Test Height 1			
	Drop Height (In)	Gmax	HIC
Drop 1	10.00	119	80
Drop 2	10.00	150	105
Drop 3	10.00	177	120
Mean Results	10.00	164	113

Sample Reference Temp 72° F – Test Height 2			
	Drop Height (In)	Gmax	HIC
Drop 1	*		
Drop 2			
Drop 3			
Mean Results			

Sample Reference Temp 72° F – Test Height 3			
	Drop Height (In)	Gmax	HIC
Drop 1	N/A		
Drop 2			
Drop 3			
Mean Results			

Frozen – 25.0°

Sample Reference Temp 25° F – Test Height 1			
	Drop Height (In)	Gmax	HIC
Drop 1	10.00	143	97
Drop 2	10.00	175	128
Drop 3	10.00	187	144
Mean Results	10.00	181	136

Sample Reference Temp 25° F – Test Height 2			
	Drop Height (In)	Gmax	HIC
Drop 1	*		
Drop 2			
Drop 3			
Mean Results			

Sample Reference Temp 25° F – Test Height 3			
	Drop Height (In)	Gmax	HIC
Drop 1	N/A		
Drop 2			
Drop 3			
Mean Results			

Hot – 120.0°

Sample Reference Temp 120° F – Test Height 1			
	Drop Height (In)	Gmax	HIC
Drop 1	10.00	125	95
Drop 2	10.00	162	113
Drop 3	10.00	184	137
Mean Results	10.00	173	125

Sample Reference Temp 120° F – Test Height 2			
	Drop Height (In)	Gmax	HIC
Drop 1	*		
Drop 2			
Drop 3			
Mean Results			

Sample Reference Temp 120° F – Test Height 3			
	Drop Height (In)	Gmax	HIC
Drop 1	N/A		
Drop 2			
Drop 3			
Mean Results			

END OF REPORT



TESTING TECHNOLOGY FOR SPORT



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