



matrix™



Matrix™

The Matrix system is comprised of two monofilament (spinneret) yarns in different sizes and colors. This configuration creates the best traction and system stability possible, and under stadium lighting the color combination provides excellent light deflection. The backing and high strength coating provides an unparalleled tuft bind. Its durability and playability is superior to any other product we have seen.

** Different color options available*



The REALFILL™ starts with a unique silica pea gravel base. This feature provides proper fiber support, energy restitution enhanced shock absorption and rapid drainage. REALFILL's larger granules won't compact under weather and heavy use.



A finish layer of dust free rubber granules completes the REALFILL™ system. The rubber shape and size minimizes "fly out", "splashing", and migration of the rubber. The result is a uniform, predictable playing surface.

All Hellas systems are installed by our own installation Crews for quality assurance. The Realfill™ infill and backing are patented features.



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Matrix™ Synthetic Turf System

<u>Standard</u>	<u>Property</u>	<u>Specification</u>
1 ASTM D418/D5848	Pile Weight®	46 oz./Sq. Yd.
2 ASTM D5848	Primary & Secondary Backing Weight	9.2 oz./Sq. Yd.
3 ASTM D5848	Secondary Coating Weight	26 oz./Sq. Yd.
4 ASTM D5848	Total Weight	81.2 oz./Sq. Yd.
5 ASTM D1907	Yarn Denier	4 single monofilament yarn ends in 1,710 denier lime green 4 single monofilament yarn ends in 1,450 denier grass green
6 ASTM D418/D5848	Pile Height	Finished 2 1/4"
7 ASTM D5793	Tufting Gauge	1/2"
8 ASTM D5848	Primary Backing	Tri-layer woven Polypropylene
9 ASTM D5848	Secondary Coating	Polyurethane
10 ASTM D1335	Tuft Bind without Infill	8 lbs. +/-
11 ASTM D1682/D5034	Grab Tear (width)	250.1 - 273.1 lbs. Force
12 ASTM D1682/D5034	Grab Tear (length)	197.6 - 236.1 lbs. Force
13 ASTM D4991	Carpet Permeability	10 - 15 inches/hour
14 ASTM D2859	Flammability (Pill Burn)	Pass
15 ASTM F355	G-max (Impact Attenuation)	<130 at installation <190 over warranty life
16 ASTM E-11	Realfill™ Infill	6 -7 lbs +/- per square foot
17	Fabric Width	15'
18	Perforation	3/16" Holes 4" X 4"
19	Yarn Thickness/Width	160 microns x 1.6 mm (lime green) 170 microns x 1.2 mm (grass green)

All Characteristics listed above nominal +/- 5%

This document is for illustrative purposes and may change without notice. Purchaser should verify that a representative specification of the system to be installed has been received prior to the establishment of a project or contract.

Matrix™ incorporates life like individual blades of grass, tufted into the strongest and most dimensionally stable backing system available with a polyurethane pre-coat for the ultimate in tuft-bind. Matrix™ is filled with a pea gravel (2-3 lbs) and cuboidal rubber infill (2.5-3.5 lbs.) - Realfill™. The monofilament fibers curl down to cover and trap the rubber granules preventing the system from expelling the infill upon impact.

Matrix™ is a fully UV stabilized system ideal for outdoor use.