



GEOGREEN® 'REPLICATED GRASS'

GeoGreen® is a dimensionally stable 'Replicated Grass' consisting of a multi-layer, Matrix primary backing, with a urethane secondary backing which is heat activated to permanently lock fiber tufts in place. GeoGreen® is tufted with a 100% polyethylene yarn utilizing a curvilinear yarn configuration. The yarn is tufted with a 3/8" gauge (stitch separation) and a minimum filament height of 2" GeoGreen® is in-filled with resilient granules of proprietary bulk-density and sizing above a 1/4" ballast layer.

The system is enhanced with a dynamic shock pad and drainage blanket (D-layer™), GeoFlo®, to maximize G-Max performance and to provide full area vertical-to-horizontal drainage while minimizing risks associated with aggregate base materials and sub-surface soils. This is accomplished without changing ball-action or the natural feel-under-foot.



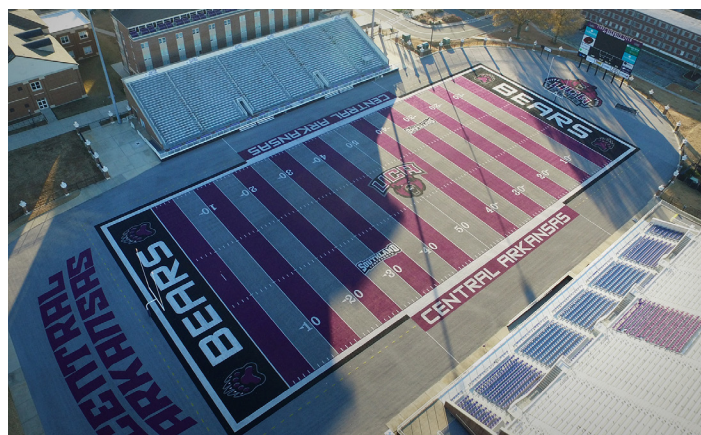
TYPICAL PROPERTIES

U.S.

TEST METHOD

Yarn Face Weight (oz per square yard)	Minimum 50 ounces	ASTM D5848
Yarn Thickness	100 Micron	ASTM D5848
Tufting Gauge	Maximum 1/2 inch	Empirical
Tuft Density (tufts per square inch)	19.5	Empirical
Wear Resistance	100,000 cycles (no loss of weight or length)	Stud Roller
Tuft Bind	8 pounds	ASTM D1335
Grab Tear Strength	420/258 (X & Y)	ASTM D5034
Climatic Dimensional Stability	>.1% machine & <.25% transverse	TSI 1201
Primary Backing (two layer)	Matrix 18 pic/non-woven	Empirical
Secondary Backing	20 oz urethane	ASTM D5848
Total Weight (oz per square yard)	87 ounce (without infill)	ASTM D5848
In-fill Depth	1.5 inch	Empirical
Relief (length of yarn above the infill)	.5 inch	Empirical
Initial G-Max	>135 using GeoFlo Shock Pad	ASTM F355A
Ultimate G-Max (highest attainable)	>165 using GeoFlo Shock Pad	TSI 128
Infill material	7-14 Ambient Ground SBR over sand ballast layer	Sieve Analysis
Permeability	64.5 inches per hour	ASTM D4716
Flammability (PILL) Test	Pass	ASTM D2859
Ball Roll	FIFA Protocol 2-Star Rating*	FIFA TM03/05-01
Ball Bounce	FIFA Protocol 2-Star Rating*	ASTM F2117
Footting (rotational resistance)	FIFA Protocol 2-Star Rating*	BS7044-2.2

*Please Note: These test were performed using the testing protocols established through FIFA, by an independent, STC certified testing laboratory, not certified by FIFA. The test methodology is the same and results shown meet the criteria FIFA has established to achieve a 2-star rating, however, since the testing was not performed at a FIFA sanctioned laboratory, no official recognition by FIFA is claimed or sought.



A PROFESSIONAL ENGINEERING FIRM

Geo-Surfaces is one of the few companies in the USA that offers in-house “turn key” sports lighting and sports surfacing. We are a licensed Professional Engineering Firm, Electrical Firm, General Contractor and Construction Manager that can offer complete construction and installation of FIFA, IAAF and ITF Approved Surfaces while also offering full design and installation of our Sports Lighting technologies.