



GEOGREEN® 'REPLICATED GRASS'

GeoGreen® is a dimensionally stable 'Replicated Grass' consisting of a Tencate XPS yarn and K29 backing, with a urethane secondary coating which is heat activated to permanently lock fiber tufts in place. GeoGreen is tufted with a 100% Tencate polyethylene yarn utilizing a curvilinear yarn configuration. The yarn is tufted with a maximum 1/2" gauge (stitch separation) and a maximum filament height of 2". GeoGreen is in-filled with resilient particles above a 1/4" ballast layer.

The system is enhanced with a dynamic shock pad and drainage blanket, GeoFlo® or 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	120 Micron	ASTM D5848
Tufting Gauge	Maximum 1/2 inch	Empirical
Wear Resistance	100,000 cycles (no loss of weight or length)	Stud Roller
Tuft Bind	8 pounds	ASTM D1335
Grab Tear Strength	250/250 (X & Y)	ASTM D5034
Primary Backing	Tencate K29	Empirical
Secondary Backing	20 oz urethane	ASTM D5848
Total Weight (oz per square yard)	77 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	Empirical
Permeability	64.5 inches per hour	ASTM D4716
Flammability (PILL) Test	Pass	ASTM D2859



“TURN KEY” SPORTS SURFACING

GeoSurfaces 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 Construction Firm, Electrical Firm, and Construction Manager that can offer complete construction and installation of FIFA, IAAF and ITF Approved Surfaces.