

GrassProtecta™

CASE STUDY



Client: **Loyola University**
 Location: **Baltimore, MD**
 Product: **GrassProtecta™ (Standard)**
 Application: **Stadium Parking (150,000 ft²)**



PROJECT RATIONALE:

With the recent completion of a new sports complex, Loyola University was in need of additional event parking at the soccer and lacrosse stadium. The new facility had already reached its maximum allowable impervious surface area under the current zoning restrictions. In addition, the project was completed over a capped landfill site, which posed a number of constraints in regard to topography and soil conditions. They needed a cost-effective approach that would double capacity without increasing impervious cover.

THE SOLUTION:

Based on the intended frequency of use and current site conditions, Loyola University selected GrassProtecta™ Standard to reinforce the grass area directly adjacent to the main soccer field to create auxiliary parking during games & tournaments. Over 150,000ft² of GrassProtecta™ was installed to support vehicle over the existing, newly sown grass area. GrassProtecta™ was chosen due to its load bearing capacity over the soil profile, which will mitigate compaction and protect the vegetative growth. The stadium more than doubled the capacity of parking without adding any additional impervious surface.



GrassProtecta™

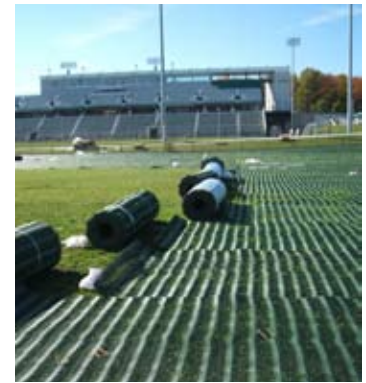
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CONCLUSION: Using GrassProtecta™, Loyola University doubled its parking capacity at their new sports complex without adding any additional impervious surface area. The added capacity will reduce the amount of rented parking and transportation needed for sporting events, greatly reducing transportation costs and quickly paying for project costs. The new installation creates a multifunctional green space that serves as both a recreational space and parking structure as needed without generating additional stormwater or changing the aesthetic view from the sports complex.



PRODUCT SPECIFICATION:

PHYSICAL CHARACTERISTICS:		STANDARD 0.24lbs/ft ²		HEAVY 0.41lbs/ft ²	
Structure		Oscillated		Oscillated	
Polymer		HDPE (with recycled content)		HDPE (with recycled content)	
Color		Green		Green	
UV Stabilized		Yes		Yes	
NOMINAL DIMENSIONS:					
Roll Width		6.56'	3.28'	6.56'	3.28'
Roll Length		65.6'	32.8'	65.6'	32.8'
Roll Weight		106lbs	26lbs	176lbs	44lbs
Weight per square foot		0.24lbs/ft ²		0.41lbs/ft ²	
Thickness		0.43"		0.55"	
Mesh Aperture (Diamond:Oval)		3:1 ratio		3:1 ratio	
TECHNICAL CHARACTERISTICS:					
Measurement	Method	Results		Results	
Tensile strength (MD)	ISO 10319	12kN/m		16kN/m	
Yield point elongation (MD)		30%		35%	
Residual thickness @ 500 kPa	ASTM D1621	45%		60%	
Slip risk PTV value	BS7976: 1-3	>40 (low slip)		>40 (low slip)	

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