

Synthetic Turf Competitive Capping Systems Comparison*

Feature	LiteEarth	Competitor	LiteEarth™ Benefit
Yarn Type	Extruded, high UV stabilized 300 micron monofilament	Low UV fibrillated or standard mono 100/150 micron yarn packages	3X long-term tensile strength retention, UV stability, durability, no fibrillation
Face Weight	27 ounces/square yard	19 ounces/square yard	30% better coverage, wear, drainage flow
Turf Tuft Bind	> 5 pounds (tufts adhered to liner)	0 - no secondary (uncoated turf loose laid on liner in field)	Minimal long term loss of face fiber
UV Stabilization of Yarn/ Primary Backing	> 0.9%	< 0.4%	2X long-term wear and retention of fiber strength tested at 34,000 hours
Liner	Flexible 45 mil Firestone EPDM thermal set	40-50 mil texturized thermal Plastic LLDPE	Contours to surface, strong linear friction and uplift resistance, very low coefficient of expansion/contraction. No wrinkles or waves.
Liner Seaming	6" Butyl Firestone tape/primer	Thermal welded	No expansion or contraction of seam
Turf Seaming	None required, bonded to liner	Threaded sewn seams	Seam will not deteriorate vs. thread failure
Seam Shear Strength	144 ppi (45 mil textured EPDM)	63 ppi (50 mil textured LLDPE)	2X seam strength
Anchoring	Platipus Anchors	Sand Ballast	Anchor placement and load can be adjusted to wind uplift calculations
Infill	none	Sand: 4-6 pounds/sf, migrates and pre-maturely abrades fiber	No erosion, no fiber abrasion, no infill maintenance
Puncture Resistance	130 pounds	55 pounds	2.5X better puncture resistance, 300% elongation
Installation	1 Step, factory composite	4 step at job site, welded, sewn seams, sand, infill adhesive	Easier, cheaper faster to install, repair
System Longevity	70-80 years	50-60 years/low UV	Improved return on investment
System Performance Warranty	Yes	Not known	Yes
Patented	Yes	Yes	Other patents pending

NOTES:

- *Based on available product information and samples.
- *U.S. Patent No. 9151009 B2

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.



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