

# GRASS & GROUND

REINFORCEMENT SOLUTIONS





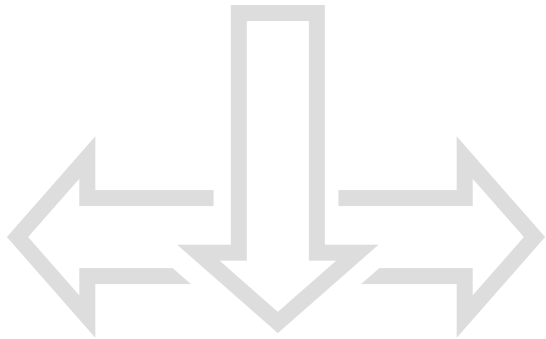
# COMMITTED TO PERFORMANCE

TYPAR™ is a brand of Berry Global, a Fortune 500 company and one of the world's leading producers of engineered non-woven fabrics, and is committed to developing products and processes that provide a safer, cleaner, and healthier world.

TYPAR is a market leader in the design and manufacture of innovative geosynthetics, providing a unique range of performance led solutions utilizing a broad range of international brands. We excel in the innovative application of technology to create versatile, high-performance materials which are unique, cost-effective and deliver significant added value.

With a strong background and proven excellence within the civil, construction, military, horticulture and landscaping industries, Berry Global offers enhanced commercial opportunities, as well as adding value to existing customers through a broadening product portfolio.

For many years, TYPAR has focused on identifying and improving performance in key areas of environmental impact, which includes waste production, energy consumption, water resource management, and the use of recycled and degradable materials. All TYPAR materials contain recycled content up to 100% and are chemically inert.



## GROUND SUPPORT & STABILIZATION

TYPAR Geosynthetics provide trusted, performance based Ground Support & Stabilization alternatives to more traditional building staples like stone, sand and asphalt. Our products are lighter and easier to install than their mineral counterparts, reducing materials required, waste created and the need for heavy construction equipment. TYPAR Geosynthetics can meet application requirements and extend the life of the projects.



# GRASS REINFORCEMENT MESH GRASSPROTECTA®

GRASSPROTECTA mesh reinforces grassed surfaces prone to wear, rutting and smearing. The oscillated mesh structure has been designed to increase traction and improve slip resistance by up to 97% compared to standard straight oriented meshes.

- **High level of reinforcement – up to 8 tons per axle (imposed load)**
- **Ideal for permanent or temporary applications**
- **Fast and cost effective installation compared to plastic paving grids**
- **No excavation or soil removal necessarily required**
- **Low slip risk PTV value of >40**

GRASSPROTECTA mesh is supplied on 6.56'x 65.6' and 3.28'x32.8' rolls in two thicknesses (0.45" and 0.55") as determined by the application and manufactured from partly recycled UV stabilized polyethylene (minimum 20% recycled polymer).

Installation is simple; after cutting the grass short the mesh is unrolled and pinned to the surface using metal U-Pins.

When grass grows through the mesh apertures, GRASSPROTECTA mesh allows the grass to intertwine with the mesh filaments creating a strong, discreetly reinforced surface capable of withstanding vehicle loads, limiting damage and reducing soil compaction.

GRASSPROTECTA mesh can also be installed onto newly landscaped areas and seeded as required. TYPAR strongly advises that newly installed GRASSPROTECTA mesh areas should be left unused until the grass has grown through the mesh apertures ensuring a strong interlock with the grass and mesh filaments is achieved – normally after a few weeks during the growing season and the surface has undergone several mowing cycles. If the surface is used immediately grass growth may take a longer period of time to establish, thus limiting the effectiveness of the product.

GRASSPROTECTA mesh can be used in source control applications as part of a LID/LEED system and is the perfect alternative to impermeable paved surfaces where natural grassed traffic lanes and driveways are preferred, where planning restrictions are applied or cost savings are being considered.

Grade	Nominal weight (lbs/ft²)	Thickness (inches)	Tensile Strength (kN/m) (MD)	Roll size (ft)	Material
Standard	0.245	0.45	0.245	3.25' x 32.8'	Recycled/Virgin HDPE Blend
Standard	0.245	0.45	0.245	6.56' x 65.6'	Recycled/Virgin HDPE Blend
Standard	0.245	0.45	0.245	6.56' x 32.8'	Recycled/Virgin HDPE Blend
Heavy	0.41	0.55	0.41	3.25' x 32.8'	Recycled/Virgin HDPE Blend
Heavy	0.41	0.55	0.41	6.56' x 32.8'	Recycled/Virgin HDPE Blend
Heavy	0.41	0.55	0.41	6.56' x 32.8'	Recycled/Virgin HDPE Blend





# SCOUR PROTECTION GRASSPROTECTA SERIES

GRASSPROTECTA™ is composed of High Density Polyethylene, with 20% recycled content, and designed with a 50% open space structure to accommodate a lush, uniform vegetated surface when established. With proper installation, the reinforced transition zone will visually appear as a grassed or natively vegetated surface, while reinforcing the soil against erosion equivalent to Class 1 Rip-Rap stone.

## APPLICATIONS

- Vegetated Erosion Control
- Stormwater Pipe Outfall
- Conveyance Channel
- Slope Stabilization
- Streambank and Shoreline Reinforcement
- Dam and Levee Overtopping Stabilization
- Detention Pond Emergency Outflow Weir
- Vegetated Shoreline Access
- Maintenance Vehicle Access Stabilization
- Canoe & Small Craft Launch

In combination with surface armament, GRASSPROTECTA™ acts as a stabilization layer for maintenance vehicle access, stabilizing the surface to prevent rutting in low lying, saturated areas when mowed or accessed.

## BENEFITS

- Multiple Product Applications and Use
- 20% Recycled Content
- 50% Open Space for Lush Vegetative Cover
- Flexible to Conform to Undulating Surfaces
- Slip Resistant Oscillated Mesh
- Roll-out for Fast Installation
- Exceeded TRI Env., Inc. testing capability
- Replace up to Class 1 Rip-Rap

## Lock-Disc Anchors

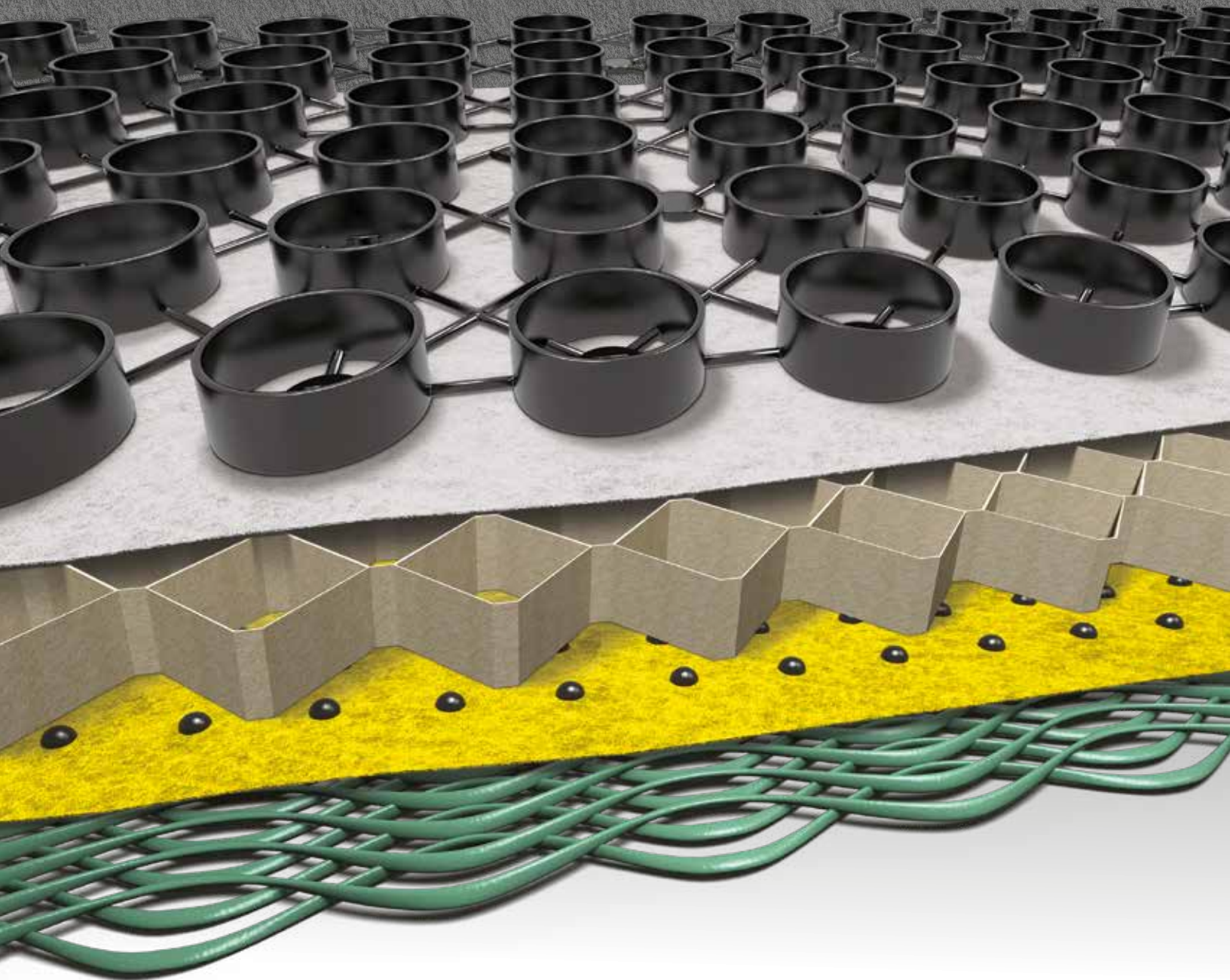
Specially designed soil anchors are used to fix GRASSPROTECTA™ to the surface and maintain stability under high shear values (>12.3 lbs/sf) even under non vegetated soil conditions. Refer to the GRASSPROTECTA™ installation guide for Scour Application instructions.

## Scour Protection Performance

Shear Value with TRM	>12.3 lbs/ft <sup>2</sup>
Velocity Value	>23 ft/sec







Product data sheets, case studies, installation guides and project information are available on request or can be downloaded from [typargeosynthetics.com](http://typargeosynthetics.com) Please contact our sales team for reference projects or for further advice.

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