

SPECIFICATION & INSTALLATION GUIDANCE



TurfProtecta[®] is an extruded polyethylene mesh which is tough, flexible and long lasting. Supplied on 2m wide x 30m long rolls and in two grades (Standard and Heavy). TurfProtecta[®] can be effectively employed over stable ground by simply unrolling and fixing adjacent and successive lengths.

After a suitable period of time, the grass will have grown through the mesh and reached a convenient height to be mown, where it can be rolled and fertilised as usual. When fully established, the area adopts a natural appearance with the grass plants intertwined with the mesh to provide a permanent protection against wear.

Installation is ideally carried out during the growing season to allow a strong interlock between the mesh and the sward. However, more growing time must be allowed if installed out of season.

INSTALLATION METHODS

A. EXISTING GRASSED AREA

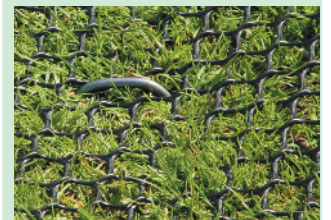
1. Cut the grass short and remove surface debris including excess grass clippings. Fill any depressions with a sandy topsoil, level and firm.
2. Unroll the TurfProtecta[®] onto the prepared surface and fix one end using metal U-Pins or plastic pegs. Whilst pulling the mesh taut pin approx every 1m down either side of the roll ensuring mesh lies flat to surface.
3. Lay adjacent rolls and overlap at 150mm and repeat the fixing process.
4. Secure overlaps and all external edges every <1 metre. Use additional pins where any bridging or rippling of the rolls is evident. Approx 75-100 pins per roll will be required.
5. Brushing a dressing of good quality sandy topsoil over the mesh to cover the ribs and fill the apertures will help promote early root growth around the mesh and promote stability. Dressing by more than 10mm is not recommended.
6. Apply a suitable grass seed dressing over areas which were previously bare of grass or which have received more than 10mm covering of sandy topsoil.
7. Pedestrians and traffic should be kept off the treated areas until the grass has become fully established over the mesh. This may take up to one growing season, depending on the time of year installed.
8. Mower blades should be set to cut fairly high for the first 2-3 cuts so that contact with the mesh is avoided. When the grass is established and the plants are entwined with the mesh, the grass can be cut normally.

B. NEWLY SOWN LANDSCAPED AREAS

1. The soil surface should be well consolidated, reasonably level and cleared of debris. Any existing depressions should be infilled with a mixture of sharp sand and top soil and thoroughly consolidated.
2. Prepare the surface as a lightly tilled and consolidated seedbed.
3. Continue with points 2-8 as above.



Mesh laid onto existing grassed surface



Mesh secured at <1m intervals using steel U-Pins or plastic pegs



Topsoil brushed over the surface



Within weeks the grass grows through the mesh



After a few months the grass will be stabilised and can be used

TURFPROTECTA[®] PRODUCT SPECIFICATIONS

PHYSICAL CHARACTERISTICS:	STANDARD	HEAVY
Structure	Diamond	Diamond
Polymer	HDPE (100% Recycled)	HDPE (100% Recycled)
Colour	Black or Green	Black or Green
UV Stabilised	Yes	Yes
NOMINAL DIMENSIONS:		
Width	2m	2m
Length	30m	30m
Weight per square metre	550g/m ²	660g/m ²
Roll weight	33kg	40.6kg
Weight per liner metre	1.1kg	1.35kg
Mesh count in 20cm	8.5 (+/- 0.25)	8.5 (+/- 0.25)
Aperture Size (MD x TD)	25mm x 29mm	22mm x 27mm
TECHNICAL CHARACTERISTICS: (ISO10319)		
Measurement	Results	Results
Tensile strength (MD)	5.9kN/m	6.2kN/m
Tensile strength (TD)	7.1kN/m	7.5kN/m
Elongation @ Break(MD)	1020%	1120%
Elongation @ Break(TD)	980%	1050%
APPLICATIONS:		
	Pedestrian and wheelchair access Buggy paths Slope stabilisation	Light vehicles access, Overflow car parks Foot paths, Caravan/boat access Light aircraft taxiways/parking

TURFPROTECTA[®] PINS & PEGS

Product	U-Pin	Pegs - Black	Pegs - Yellow	Washers - Yellow
Material	Steel	Plastic	Plastic	Plastic
Size	170mm x 70mm x 6mm dia.	140mm long	140mm long	58mm diameter
Outer	50 pack	100 pack	100 pack	100 pack



Metal U-Pins



Plastic fixing pegs and parking bay markers / washers

- Suitability and selection of appropriate TurfProtecta[®] pegs will be at the clients discretion according to the site soil type, condition and depth.

Notes :

- Where weak and / or waterlogged ground conditions exist, these must be improved prior to placement of TurfProtecta[®]. For occasional use by HGV's, a sub-base may be required.
- Advice on suitability for specific applications is available from the Fiberweb Geosynthetics technical team.
- TurfProtecta[®] can become slippery when wet (before the grass has had a chance to grow through). Fiberweb Geosynthetics strongly recommend that all newly installed mesh is cordoned off and signage erected to advise of any potential slip hazards.

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FIBERWEB GEOSYNTHETICS LTD

Blackwater Trading Estate • The Causeway • Maldon • Essex CM9 4GG • UK

Tel: +44 (0) 1621 874200 Fax: +44 (0) 1621 874299

e.mail: info@terram.com • www.terram.com