

Grassprotecta®

SPECIFICATION & INSTALLATION GUIDANCE



Boddingtons' GrassProtecta® is a tough, flexible and long lasting extruded polyethylene mesh. Available in two grades (Standard & Heavy) and supplied in two roll sizes (2m x 20m & 1m x 10m). GrassProtecta® can be effectively employed over stable ground by simply unrolling and anchoring adjacent and successive lengths using either metal or plastic fixing pins. After a suitable period of time, the grass will grow through the mesh and reach a convenient height to be mown. The area quickly adopts a natural appearance with the grass plants intertwined with the mesh to provide permanent protection against wear. Installation is best carried out during the growing season to allow a strong interlock between the mesh and the sward, although GrassProtecta® can be installed throughout the year as appropriate.

INSTALLATION METHODS

A. EXISTING GRASSED AREA

1. Ensure the surface is relatively flat and well drained. Cut the grass short and remove clippings. Fill any shallow depressions on the grassed surface with a 70:30 blend of sharp sand and good quality topsoil - level and firm. Seed may be applied at this stage or later to avoid disturbance whilst laying the mesh.
2. It is advisable to unroll the mesh rolls and leave for a minimum of one hour. This helps the mesh regain its natural flatness.
3. Lay the mesh directly onto the existing surface and fix one edge using metal U-pins or plastic pegs, pulling the mesh taut. For external edges we advise fixing every 300mm-500mm to ensure there are no raised edges. Ensure the mesh lies flat to surface.
4. Along the middle of each roll, fix every 1m-2m as required.
5. Butt adjacent rolls together (no overlapping).
6. Secure the butt joins by using the fixing pins/pegs every 500mm (each metal U-pin can join both edges). Fix the middle of the the new roll every 1m-2m as required. Repeat this process, using additional pins/pegs to secure any raised areas or where any bridging or rippling of the rolls is evident.
7. When you are satisfied that the mesh is laid flat and secure, a brushing of good quality sandy topsoil over the mesh may be required for any low areas, but this is not essential.
8. Any areas that have been levelled with sandy topsoil can be seeded at this stage.
9. Best results are obtained by not using the area until the grass has grown through the mesh apertures. This usually takes 4-8 weeks in the growing season. The area can be trafficked immediately, but grass will benefit from traffic restriction during establishment if practical to do so. If the product is used too early before the grass has had time to grow through, the mesh can become slippery in wet conditions.
10. Once the grass has grown through, initial mowing can be carried out but set blades to cut fairly high so that contact with the mesh is not made. When the grass is established and the plants are intertwined with the mesh, the grass can be cut normally (This may take up to 3 cuts).
11. If any raised areas appear after the initial installation, these can be addressed by using additional U-pins / plastic pegs.

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 2-11 as above.



Mesh unrolled



Secured with U-pins



Mesh 'Butt' joined using U-pins

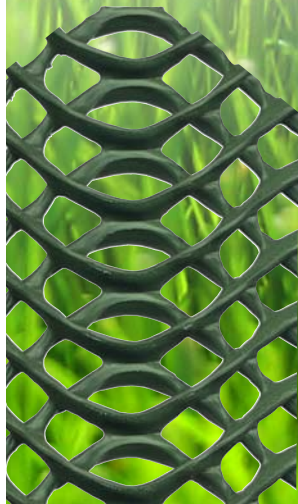


Mesh after installation



After installation - grass grows through quickly

Grassprotecta®



GRASSPROTECTA® PRODUCT SPECIFICATIONS

PHYSICAL CHARACTERISTICS:		STANDARD 1.2kg/m ²		HEAVY 2kg/m ²	
Structure		Oscillated		Oscillated	
Polymer		HDPE (80% Virgin, 20% Recycled)		HDPE (80% Virgin, 20% Recycled)	
Colour		Green		Green	
UV Stabilised		Yes		Yes	
NOMINAL DIMENSIONS:					
Roll Width		2m	1m	2m	1m
Roll Length		20m	10m	20m	10m
Roll Weight		48kg	12kg	80kg	20kg
Weight per liner metre		2.4kg	1.2kg	4kg	2kg
Weight per square metre		1.2kg/m ²		2kg/m ²	
Thickness		11mm		14mm	
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)	
APPLICATIONS:					
Vehicle access routes, Overflow car parks, Pedestrian and disabled access, Golf buggy paths, Footpaths, Caravan/boat access, Light aircraft taxiways/parking Slope stabilisation and occasional HGV access (determined by ground conditions)					

GRASSPROTECTA® 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 GrassProtecta® 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 GrassProtecta®. For occasional use by HGV's, a sub-base may be required.
- Advice on suitability for specific applications is available from Boddingtons Ltd's technical team.
- GrassProtecta® can become slippery when wet (before the grass has had a chance to grow through). Boddingtons strongly recommend that all newly installed mesh is cordoned off and signage erected to advise of any potential slip hazards.

Please note that the information above is given as a guide only. Boddingtons cannot be liable for damage caused by incorrect installation of this product. Final determination of the suitability of any information or material for the use contemplated and the manner of its use is the sole responsibility of the user and the user must assume all risk and responsibility in connection therewith.

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