

<http://www.boddingtons-ltd.com/forestry/grassprotecta-grass-reinforcement-mesh.htm>

## GrassProtecta® Grass Reinforcement Protection Mesh

GrassProtecta® slip resistant grass reinforcement mesh is an improved heavy duty thick polyethylene grid for reinforcing and protecting grassed surfaces prone to wear, rutting and smearing which can result in a muddy surfaces incapable of withstanding vehicular or pedestrian applications.

Boddingtons new GrassProtecta® slip resistant has been developed with an oscillated mesh structure which is designed to increase traction and improve slip resistance by up to 97% compared to standard straight oriented meshes. GrassProtecta® slip resistant is a cost effective solution for :

- > Grass car parks
- > Overflow grass car parks
- > Pedestrian paths
- > Disabled (DDA) access routes
- > Light aircraft taxiways
- > Equestrian surfaces
- > Grass verges
- > Caravan park access and caravan bays
- > Front lawn parking
- > SuDS Source Control
- > Wheelchair paths

GrassProtecta® slip resistant grass reinforcement mesh is supplied on 2m x 20m & 1m x 10m rolls in two thicknesses (11mm & 14mm) as determined by the application and manufactured from partly recycled UV Stabilised polyethylene (Approx 20% recycled polymer)

Installation is very simple; After cutting the grass short, the grass protection mesh is unrolled and pinned to the surface using metal U-Pins or plastic pegs. By allowing plants to grow through the plastic mesh apertures, GrassProtecta® slip resistant mesh allows the grass sward to intertwine with the plastic mesh filaments creating a strong, discreetly reinforced grass surface capable of withstanding vehicle loads, limiting damage and reducing soil compaction. GrassProtecta® can also be installed onto newly landscaped areas with the soil seeded as required. Full installation and design specification is available from Boddingtons technical team or downloaded to the left.



Mesh being used immediately after installation




After just a week the grass starts to grow through the mesh



GrassProtecta™ is ideal for golf buggy routes and grass car parks

Boddingtons strongly advise that newly installed GrassProtecta® slip resistant grass surfaces should be left unused until the grass has grown through the plastic net apertures and a strong interlock has been

achieved – normally after a few weeks during the growing season rising to a few months out of the growing season. This is to allow the grass to fully grow through the grass reinforcement net and allow the grass sward to create the strong interlock with the mesh. If the surface is used immediately grass growth may take a longer period of time and may limit the effectiveness of the product initially.

<p>GrassProtecta® grass reinforcement grid provides :</p> <ul style="list-style-type: none"> <li>*High level of grass reinforcement – up to 8 tonnes per axle (imposed load)</li> <li>*Ideal for permanent or temporary applications</li> <li>*Fast and cost effective installation compared to plastic paving grids</li> <li>*No excavation or soil removal necessarily required</li> <li>*Up to 97% improved slip resistance compared to the standard grass protection meshes</li> </ul>	<p style="text-align: center;"><b>Mesh Structure</b></p> 
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GrassProtecta® can be used in Source Control applications as part of Sustainable Urban Drainage System (SUDS) and is the perfect alternative to impermeable paved surfaces where natural grassed traffic routes and driveways are preferred and where planning restrictions are applied or cost savings are being considered.

Natural grass finish returns in just a few weeks:


 <p>Slip resistant Grass Protection Mesh is quickly unrolled flat ready for pinning</p>	 <p>Immediately the grass starts to grow though the plastic mesh</p>	 <p>After just a few week in the growing season the mesh has almost disappeared from view</p>
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Boddingtons also offer a full installation service if required with our dedicated and professional installation team. Please contact our team if you require this service 01621 874206/211 or click [here](#) for further details.

*Please note that with all plastic products, the product can become slippery on damp or wet conditions if used before any grass has grown.*

### Fixing U-Pins

To secure GrassProtecta® grass reinforcement mesh to the ground, use our metal U-Pins at regular intervals. Full details of the amount of pins required per roll / area can be calculated by reading our Specification and Installation Guidance document download on the left menu.

	<p><b>Material</b></p> <p>Steel</p>	<p><b>Size</b></p> <p>150mm x 50mm x 8mm dia.</p>	<p><b>Quantity</b></p> <p>50 in bag</p>	<p><b>Part Number</b></p> <p>041824</p>
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Size	Grade	Colour	Mesh Aperture	Weight	Material	Thickness	Part No.
2mx20m	Standard	Green	3:1 Ratio Diamond:Oval	1.2kg/m <sup>2</sup>	HDPE*	11mm	055876
2mx10m	Standard	Green	3:1 Ratio Diamond:Oval	1.2kg/m <sup>2</sup>	HDPE*	11mm	057856
1mx10m	Standard	Green	3:1 Ratio Diamond:Oval	1.2kg/m <sup>2</sup>	HDPE*	11mm	055869
2mx20m	Heavy	Green	3:1 Ratio Diamond:Oval	2kg/m <sup>2</sup>	HDPE*	14mm	055470
2mx10m	Heavy	Green	3:1 Ratio Diamond:Oval	2kg/m <sup>2</sup>	HDPE*	14mm	057863
1mx10m	Heavy	Green	3:1 Ratio Diamond:Oval	2kg/m <sup>2</sup>	HDPE*	14mm	055852

\* Manufactured from HDPE with recycled content

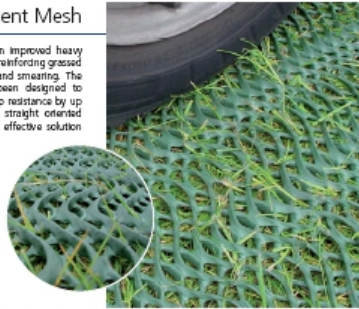
If your requirements are only to reinforce grass that will be used for occasional vehicle parking and heavy pedestrian use, GrassProtecta® Grass Protection Mesh would be the ideal solution, but [turf reinforcement mesh](#) may also be suitable. We can also offer our [Bodpave® Grass Pavers](#) for reinforcing grass areas, or [Bodpave®](#) ground reinforcement paving grids for gravel driveways or grass car parks. Our premium permeable paver is [BodPave® 85 Porous Pavers](#).

<http://www.boddingtons-ltd.com/PDF/GrassProtecta-Leaflet-2010.pdf>

## Grass Reinforcement Mesh

GrassProtecta® slip resistant is an improved heavy duty thick polyethylene mesh for reinforcing 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. GrassProtecta® is a cost effective solution for:

- Grass car parks
- Pedestrian paths
- Disabled (DDA) access routes
- Light aircraft taxiways
- Equestrian surfaces
- Grass verges
- Caravan parks
- Front lawn parking



GrassProtecta® is supplied on 2m x 20m, 1m x 10m rolls and in cut sheets in two thicknesses (11mm & 14mm) as determined by the application and manufactured from partly recycled UV stabilised 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 or plastic pegs. By allowing plants to grow through its apertures, GrassProtecta® allows the sward to intertwine with the mesh filaments creating a strong, discretely reinforced surface capable of withstanding vehicle loads, limiting damage and reducing soil compaction. GrassProtecta® can also be installed onto newly landscaped areas and seeded as required.

Boddingtons strongly advise that newly installed GrassProtecta® 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, increasing to a few months out of the growing season. 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® can be used In Source Control applications as part of Sustainable Urban Drainage System (SUDS) and is the perfect alternative to impermeable paved surfaces where natural grassed traffic routes and driveways are preferred or where planning restrictions are applied or cost savings are being considered.



The oscillated mesh structures allows full natural grass growth whilst improving slip resistance by up to 97% compared to standard straight oriented mesh structures.



GrassProtecta® can be used immediately after installation

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- High level of reinforcement – up to 8 tonnes 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
- Up to 97% improved slip-resistance compared to the standard grass protection meshes\*

### Installation Service:

Boddingtons offer an optional installation service. For further information on our dedicated and professional installation team, please contact us on 01621 874200.



GrassProtecta® can be used to protect grass on light aircraft taxiways and golf buggy routes.

GrassProtecta® is simply installed onto the existing grass surface. The grass will quickly grow through the mesh apertures and the area will return to a natural grassed appearance. This may take a longer period of time out of the growing season.



Mesh upon installation



After 1 week the grass starts to grow through the mesh



After just a few weeks the grass has fully grown through

### Technical Information



- Please contact our technical sales team for further technical literature or advice:
- Specification & installation guidance
- Product data sheets
- Case studies
- Installation locations

### Fixing Pins & Pegs

Steel U-pins or plastic pegs to secure GrassProtecta® to the ground. Yellow marker pegs are available if required.



PRODUCT	U-PINS	BLACK PEGS
MATERIAL	STEEL	PLASTIC
SIZE (mm)	100 x 70 x 6 dia	140 long
OUTER	50 pack	100 pack
PART No.	041824	055029

Available to download online at [www.grass-reinforcement.com](http://www.grass-reinforcement.com)

SIZE	GRADE	COLOUR	MESH APERTURE (CLEARANCE - OVERLAP)	SLIP RISK* PTV VALUE	WEIGHT	THICKNESS	TENSILE STRENGTH	MATERIAL	PART No.
2m x 20m	Standard	Green	3:1 Ratio	>40 (low)	1.2kg/m <sup>2</sup>	11mm	12kN/m (MCS)	HPS 20% Recycled	055876
1m x 10m	Standard	Green	3:1 Ratio	>40 (low)	1.2kg/m <sup>2</sup>	11mm	12kN/m (MCS)	HPS 20% Recycled	055869
2m x 20m	Heavy	Green	3:1 Ratio	>40 (low)	2kg/m <sup>2</sup>	14mm	16kN/m (MCS)	HPS 20% Recycled	055470
1m x 10m	Heavy	Green	3:1 Ratio	>40 (low)	2kg/m <sup>2</sup>	14mm	16kN/m (MCS)	HPS 20% Recycled	055852
1.2m x 2m	Heavy	Green	3:1 Ratio	>40 (low)	2kg/m <sup>2</sup>	14mm	16kN/m (MCS)	HPS 20% Recycled	056170

\*Please note that with all plastic products the surface may become slippery in damp or wet conditions if used before the grass has established. © 2015 - Machine Direction - 100% Recycled Polyester  
\*Results from research carried out at Sheffield University (Prof. Rob Davies) July 2008

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## Grass Reinforcement Mesh

GrassProtecta® slip resistant is an improved heavy duty thick polyethylene mesh for reinforcing 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. GrassProtecta® is a cost effective solution for:

- Grass car parks
- Pedestrian paths
- Disabled (DDA) access routes
- Light aircraft taxiways
- Equestrian surfaces
- Grass verges
- Caravan parks
- Front lawn parking



GrassProtecta® is supplied on 2m x 20m, 1m x 10m rolls and in cut sheets in two thicknesses (11mm & 14mm) as determined by the application and manufactured from partly recycled UV stabilised 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 or plastic pegs. By allowing plants to grow through its apertures,

GrassProtecta® allows the sward to intertwine with the mesh filaments creating a strong, discreetly reinforced surface capable of withstanding vehicle loads, limiting damage and reducing soil compaction. GrassProtecta® can also be installed onto newly landscaped areas and seeded as required.

Boddingtons strongly advise that newly installed GrassProtecta® 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, increasing to a few months out of the growing season. 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® can be used in Source Control applications as part of Sustainable Urban Drainage System (SUDS) and is the perfect alternative to impermeable paved surfaces where natural grassed traffic routes and driveways are preferred or where planning restrictions are applied or cost savings are being considered.

The oscillated mesh structures allows full natural grass growth whilst improving slip resistance by up to 97% compared to standard straight oriented mesh structures.



GrassProtecta® can be used to protect grass on light aircraft taxiways and golf buggy routes.

High level of reinforcement – up to 8 tonnes 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 Up to 97% improved slip-resistance compared to the standard grass protection meshes\*

### **Installation Service:**

Boddingtons offer an optional installation service. For further information on our dedicated and professional installation team, please contact us on 01621 874200.



GrassProtecta® is simply installed onto the existing grass surface. The grass will quickly grow through the mesh apertures and the area will return to a natural grassed appearance. This may take a longer period of time out of the growing season.



Mesh upon installation



After 1 week the grass starts to grow through the mesh



After just a few weeks the grass has fully grown through

### **Fixing Pins & Pegs**

Steel U-pins or plastic pegs to secure GrassProtecta® to the ground. Yellow marker pegs are available if required

PRODUCT	<b>U-PINS</b>	<b>BLACK PEGS</b>
MATERIAL	STEEL	PLASTIC
SIZE (mm)	170 x 70 x 6 dia	140 long
OUTER	50 pack	100 pack
PART No.	041824	055029

Available to download online at [www.grass-reinforcement.com](http://www.grass-reinforcement.com)

SIZE	GRADE	COLOUR	MESH APERTURE (DIAMOND : OVAL)	SLIP RISK* PTV VALUE	WEIGHT	THICKNESS	TENSILE STRENGTH	MATERIAL
2m x 20m	Standard	Green	3:1 Ratio	>40 (low)	1.2kg/m <sup>2</sup>	11mm	12kN/m (MD)	HDPE 20% Recycled
1m x 10m	Standard	Green	3:1 Ratio	>40 (low)	1.2kg/m <sup>2</sup>	11mm	12kN/m (MD)	HDPE 20% Recycled
2m x 20m	Heavy	Green	3:1 Ratio	>40 (low)	2kg/m <sup>2</sup>	13mm	16kN/m (MD)	HDPE 20% Recycled
1m x 10m	Heavy	Green	3:1 Ratio	>40 (low)	2kg/m <sup>2</sup>	13mm	16kN/m (MD)	HDPE 20% Recycled
1.2m x 2m	Heavy	Green	3:1 Ratio	>40 (low)	2kg/m <sup>2</sup>	13mm	16kN/m (MD)	HDPE 20% Recycled

MD - Machine Direction TD - Transverse Direction

Please note that with all plastic products the surface may become slippery in damp or wet conditions if used before the grass has established.

\* Results from research carried out at Sheffield University (Prof. Rob Dwyer-Joyce) July 2008.

<http://www.boddingtons-ltd.com/civil/turf-reinforcement-mesh.htm>

### **TurfProtecta® turf reinforcement mesh**

Turfprotecta® turf reinforcement mesh is an extruded plastic mesh for the protection and reinforcement of grass and turf. The turf reinforcement mesh stabilises the grass and enables the grass to intertwine with the plastic mesh filaments creating a strong stable reinforced grassed surface. The grass protection mesh is ideal for pedestrian and light vehicle use, overflow car parks, and airport taxi-ways.

When installing turf reinforcement mesh, it is essential that the plastic reinforcing mesh should be laid down to give enough time for the grass roots to intertwine with the plastic mesh filaments (E.g. early spring). This usually takes approximately one growing season. The protected area will soon resume its natural appearance with the turf reinforcement mesh disappearing below the surface of the grass providing a stable surface that will withstand the weight of vehicles and heavy pedestrian use. The grass reinforcement mesh is available in black & green in a standard grade, and black in a heavy duty grade. TurfProtecta® black and green are manufactured from 100% recycled High Density Polyethylene (HDPE).

Turfprotecta® Turf reinforcement mesh is ideal for :

- Overflow car-parks
- Pedestrian grassed areas
- Small aircraft taxi-ways

## **A full installation procedure is shown below:**

TurfProtecta™ Turf Reinforcement mesh is a strong extruded high-density polyethylene mesh. Supplied in 2m wide x 30m long rolls, it can provide excellent turf reinforcement if used and fixed as directed. Once fixed in place grass will grow through the mesh and may then be mown, rolled and fertilised as usual. When fully established (normally a full growing season will be required) the plastic mesh will be invisible and the turf will have a normal appearance. The intertwining of the grass roots with the mesh gives the turf the strength to resist light traffic and temporary car parking.

It is strongly recommended that installation be carried out during the growing season to allow a strong interlock between the mesh and the grass roots. The product is only effective if the grass is allowed enough time to grow and interlock with the mesh. A full growing season should be allowed before using the area.

### **Installation on Existing Grassed areas**

1. Fill any depressions with a 70:30 mixture of sharp sand and topsoil, level and firm. Cut grass short.
2. Unroll the Turf reinforcement mesh and fix one end using our metal U-Pins. Pull taut, and pin approx. every 500mm either side of the mesh ensuring mesh lies flat to surface.
3. Lay adjacent turf reinforcement net rolls next to the fixed mesh rolls and overlap at least 150mm and repeat the fixing process.
4. Secure overlaps and all external edges every 500mm.
5. When you are satisfied that the mesh is laid flat and securely, brush a dressing of good quality sandy topsoil over the mesh. Ensure that the mesh filaments are covered and the apertures are filled. This will help promote root growth around the mesh.
6. Any areas that have been levelled with sandy topsoil should be seeded.
7. Pedestrians and traffic should be kept off the treated areas until the grass has become fully established over the mesh. This usually takes at least one growing season.
8. Initial mowing can be done, but set mowers to cut fairly high, so that contact with the mesh is not made. When the grass is established and the roots are entwined with the mesh, the grass can be cut normally.

### **Newly Sown Areas**

1. Ensure that the surface is level, filling any uneven areas with a mixture of sharp sand and topsoil. Remove any debris / stones or rocks.
2. Thoroughly prepare the surface and firm.
3. Continue with Points 2-8 as above

### **Part Numbers**

<b>Roll Size</b>	<b>Colour</b>	<b>Mesh Aperture</b>	<b>Weight</b>	<b>Part Number</b>
2m x 30m	Black	25mm x 29mm (nominal)	Standard 550g/m <sup>2</sup>	009862
2m x 30m	Green	25mm x 29mm (nominal)	Standard 550g/m <sup>2</sup>	049202
2m x 30m	Black	22mm x 27mm (nominal)	Premium 660g/m <sup>2</sup>	048175
2m x 30m	Green	22mm x 27mm	Premium 660g/m <sup>2</sup>	049967

		(nominal)		
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### Steel U-Pins

To secure TurfProtecta™ and grass reinforcement mesh to the ground, use our metal U-Pins at a minimum of 500mm intervals.

	Material	Size	Quantity	Part Number
	Steel	150mm x 50mm x 8mm dia.	50 in bag	041824

Other products that may be of interest includes :

[GrassProtecta® Grass Reinforcement Mesh](#)

[BodPave® 85 Porous Grass / Gravel Pavers](#)

<http://www.grass-reinforcement.com/images/uploads/file/TurfProtecta-Leaflet-PR05-08-Issue2.pdf>

### Grass Reinforcement Mesh

Ideal for:

Overflow grass car parks

Pedestrianised grassed areas

Footpaths and wheelchair access routes

Front lawn parking



TurfProtecta™ is a black or green, lightweight polyethylene mesh for grass reinforcement where occasional light vehicular or pedestrian use is required for car parking or access routes. Supplied in 2m x 30m rolls and in two grades, 'Standard' and 'Heavy' as determined by the application the mesh is ideal for reinforcing grassed surfaces prone to wear and smearing which can create a muddy surface incapable of being used.

Manufactured from 100% recycled high density polyethylene, the mesh is UV stabilised and simple to install; after cutting the grass short, the mesh is unrolled and pinned to the surface using metal U-Pins or plastic pegs. By allowing plants to grow through the mesh apertures, the sward intertwines with the mesh filaments creating a strong, discreetly reinforced surface, limiting damage and reducing soil compaction. It is advisable to allow the grass to fully establish before the area is used to create a stronger reinforced surface (this may take only a few weeks to a few months depending on the grass growing season). The grass can however be mown, rolled and fertilised as usual during this period.

TurfProtecta™ can be installed onto existing grassed surfaces or newly landscaped areas, for both permanent or temporary applications. It is strongly recommended that installation be carried out during the growing season to allow a strong interlock between the mesh and the grass roots.





Turfprotecta™ can also be laid on top of a level, well drained, seeded soil, pinned and then covered with a layer of topsoil and seed.



Within a few weeks the grass will grow through the mesh, creating a natural reinforced grassed surface.



TurfProtecta™ can be installed as a permanent or temporary reinforcement surface for car parking at large outdoor events. It is possible to uninstall the mesh and re-use it if a temporary surface is required.



Newly landscaped installation... Green TurfProtecta™ laid and covered with a layer of topsoil and seed.



After just a few weeks... the grass grows through the mesh offering a strong stabilised surface.



After a few months of the growing season, the grass roots have intertwined with the mesh filaments creating a strong stable surface capable of withstanding heavy pedestrian and occasional vehicular use. The grass can be cut as normal and has regained its natural appearance.

SIZE	GRADE	COLOUR	MESH APERTURE	WEIGHT	TENSILE STRENGTH	MATERIAL
2m x 30	Standard	Black	25mm x 29mm	550g/m2	5.9kN/m (MD) 7.1kN/m (TD)	HDPE 100% Recycled
2m x 30m	Standard	Green	25mm x 29mm	550g/m2	5.9kN/m (MD) 7.1kN/m (TD)	HDPE 100% Recycled
2m x 30m	Heavy	Black	22mm x 27mm	660g/m2	6.2kN/m (MD) 7.5kN/m (TD)	HDPE 100% Recycled
2m x 30m	Heavy	Green	22mm x 27mm	660g/m2	6.2kN/m (MD) 7.5kN/m (TD)	HDPE 100% Recycled

**MD - Machine Direction TD - Transverse**

**Direction**

<http://www.grass-reinforcement.com/index.php/products/installation-services/turfprotecta-turf-reinforcement-mesh>

**TurfProtecta®**

[Description](#) [Technical](#) [Product Downloads](#) [Case Studies](#) [Image Gallery](#) [Installation Services](#) [Buy Online](#)  
[Description](#)



TurfProtecta® turf reinforcement mesh is an extruded black or green, lightweight plastic mesh for grass reinforcement and protection where occasional light vehicle or pedestrian use is required for applications including car parking, access routes and aircraft taxiways. Supplied in 2m x 30m rolls and in two grades, 'Standard' and 'Heavy' as determined by the application, TurfProtecta® turf reinforcement mesh is ideal for reinforcing grassed surfaces prone to wear, rutting and smearing which can result a muddy surface incapable of being used.

- Overflow grass car parks
- Grass access routes
- Pedestrianised grassed areas
- Grass footpaths
- Wheelchair / Disabled (DDA) access routes
- Front lawn parking
- Aircraft taxiways

TurfProtecta® grass reinforcement net is manufactured from 100% recycled high density polyethylene, the mesh is UV stabilised and simple to install; after cutting the grass short, the TurfProtecta® turf reinforcement mesh is unrolled and pinned to the surface using metal U-Pins or plastic pegs. By allowing plants to grow through the plastic mesh apertures, the grass sward intertwines with the plastic mesh filaments creating a strong, discreetly reinforced surface, limiting damage and reducing soil compaction. It is advisable to allow the grass to fully establish before the area is used to create a stronger reinforced surface (this may take only a few weeks to a few months depending on the grass growing season).

It is strongly recommended that installation be carried out during the growing season to allow a strong interlock between the TurfProtecta® mesh and the grass roots. The grass will grow through the reinforcement mesh, creating a natural reinforced and stabilised grassed surface capable of applications including car parks and grass access routes. After a few months of the growing season, the grass roots will have intertwined with the mesh filaments creating a strong stable surface capable of withstanding heavy pedestrian and occasional vehicular use. The grass can be cut as normal and will have regained its natural appearance. The grass can however be mown, rolled and fertilised as usual during this period.

TurfProtecta® grass reinforcement mesh can be installed onto existing grassed surfaces or newly landscaped areas (Laid on top of a level, well drained, seeded soil, pinned and then covered with a layer of topsoil and seed), for both permanent or temporary applications. Turfprotecta® is the perfect ground reinforcement mesh for grassed areas prone to becoming muddy and rutted in wet conditions.



**Product Specification :**

Size	Grade	Colour	Mesh Aperture	Weight	Material	Recycled	Part No.
2mx30m	Standard	Black	25mmx29mm	550g/m <sup>2</sup>	HDPE	100%	009862
2mx30m	Standard	Green	25mmx29mm	550g/m <sup>2</sup>	HDPE	100%	049202
2mx30m	Heavy	Black	22mmx27mm	660g/m <sup>2</sup>	HDPE	100%	048175

2mx30m	Heavy	Green	22mmx27mm	660g/m <sup>2</sup>	HDPE	100%	049967
2mx10m	Standard	Green	25mmx29mm	550g/m <sup>2</sup>	HDPE	100%	057870
2mx10m	Standard	Black	25mmx29mm	550g/m <sup>2</sup>	HDPE	100%	057887

### Fixing Pins and Pegs

Steel U-Pins or plastic pegs should be used to secure TurfProtecta® to the ground. Please download the design specification for details on the recommended amount of pins per roll.

 U-Pins	 Plastic Pegs and Markers	Product	Material	Size	Outer	Part Number
		U-Pins	Steel	170mm x 70mm x 6mm dia.	50 pack	041824
		Black Pegs	Plastic	140mm long	100 pack	060351


Other products that maybe of interest include [BodPave®](#) grass paving grids and [GrassProtecta®](#) grass protection mesh.

<http://www.grass-reinforcement.com/index.php/products/technical-downloads/turfprotecta-turf-reinforcement-mesh>  
[Technical Product Downloads](#)

 TurfProtecta® Literature	 TurfProtecta® Specification, Design & Installation Guide	
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<http://www.grass-reinforcement.com/images/uploads/file/TurfProtecta-Leaflet-PR05-08-Issue2.pdf>

### Grass Reinforcement Mesh

Ideal for: Overflow grass car parks Pedestrianised grassed areas Footpaths and wheelchair access routes Front lawn parking	
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TurfProtecta™ is a black or green, lightweight polyethylene mesh for grass reinforcement where occasional light vehicular or pedestrian use is required for car parking or access routes. Supplied in 2m x 30m rolls and in two grades, 'Standard' and 'Heavy' as determined by the application the mesh is ideal for reinforcing grassed surfaces prone to wear and smearing which can create a muddy surface incapable of being used.

Manufactured from 100% recycled high density polyethylene, the mesh is UV stabilised and simple to install; after cutting the grass short, the mesh is unrolled and pinned to the surface using metal

U-Pins or plastic pegs. By allowing plants to grow through the mesh apertures, the sward intertwines with the mesh filaments creating a strong, discreetly reinforced surface, limiting damage and reducing soil compaction. It is advisable to allow the grass to fully establish before the area is used to create a stronger reinforced surface (this may take only a few weeks to a few months depending on the grass growing season). The grass can however be mown, rolled and fertilised as usual during this period. TurfProtecta™ can be installed onto existing grassed surfaces or newly landscaped areas, for both permanent or temporary applications. It is strongly recommended that installation be carried out during the growing season to allow a strong interlock between the mesh and the grass roots.



Turfprotecta™ can also be laid on top of a level, well drained, seeded soil, pinned and then covered with a layer of topsoil and seed.



Within a few weeks the grass will grow through the mesh, creating a natural reinforced grassed surface.



TurfProtecta™ can be installed as a permanent or temporary reinforcement surface for car parking at large outdoor events. It is possible to uninstall the mesh and re-use it if a temporary surface is required.



Newly landscaped installation... Green TurfProtecta™ laid and covered with a layer of topsoil and seed.



After just a few weeks... the grass grows through the mesh offering a strong stabilised surface.



After a few months of the growing season, the grass roots have intertwined with the mesh filaments creating a strong stable surface capable of withstanding heavy pedestrian and occasional vehicular use. The grass can be cut as normal and has regained its natural appearance.

SIZE	GRADE	COLOUR	MESH APERTURE	WEIGHT	TENSILE STRENGTH	MATERIAL
2m x 30	Standard	Black	25mm x 29mm	550g/m2	5.9kN/m (MD) 7.1kN/m (TD)	HDPE 100% Recycled
2m x 30m	Standard	Green	25mm x 29mm	550g/m2	5.9kN/m (MD) 7.1kN/m (TD)	HDPE 100% Recycled
2m x 30m	Heavy	Black	22mm x 27mm	660g/m2	6.2kN/m (MD) 7.5kN/m (TD)	HDPE 100% Recycled
2m x 30m	Heavy	Green	22mm x 27mm	660g/m2	6.2kN/m (MD) 7.5kN/m (TD)	HDPE 100% Recycled

**MD - Machine Direction TD - Transverse**

**Direction**

## **TURFPROTECTA®**

### **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 fertilized 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.



<http://www.grass-reinforcement.com/index.php/products/case-studies/turfprotecta-turf-reinforcement-mesh>

### Case Studies

Client: Tenterden Town Council  
 Location: Tenterden Recreation Ground  
 Contractor: Evergreen Landscape Maintenance  
 Product: TurfProtecta® Standard 550g/m<sup>2</sup>  
 Application: Recreation ground reinforcement

#### **The Problem:**

The grassed recreation grounds were used weekly by the market. Commercial vehicles and heavy pedestrian use meant that the grass became thin, bare and rutted in wet weather. This produced an undesirable surface to continue the markets.

#### **The Solution:**

Turf reinforcement mesh was used to lay directly onto the existing grassed area. The plastic mesh was pinned using metal U-pins every 1m to hold the mesh down. Each roll of mesh was over lapped to ensure there were no gaps. A covering of top soil was spread over the mesh to fill in any uneven areas and to encourage the grass to grow through the mesh filaments quickly. The area was fenced off for a few weeks, and then mown as normal. Within a few months the mesh had completely disappeared under the surface as the grass roots interlocked with the mesh filaments, ensuring a stable reinforced grassed area clear of rutting.

#### **Conclusion:**

TurfProtecta® was easy to install onto the existing grass surface and allowed the grass to quickly grow through the mesh apertures. This created a strong interlock with the root mass and ensured the area could be used for the weekly market vehicles and pedestrians without damaging or rutting the grass surface.

**Further Downloadable Case Study PDF's :**



Tenterden Recreation Park

Foxwood

<http://www.grass-reinforcement.com/images/uploads/file/CASE%20STUDY%20-%20Tenterden%20Rec.pdf>

### CASE STUDY TURFPROTECTA™ TURF REINFORCEMENT MESH

Client: Tenterden Town Council

Location: Tenterden Recreation Ground

Contractor: Evergreen Landscape Maintenance

Product: TurfProtecta™ Standard 550g/m<sup>2</sup> 2m x 30m Black

Application: Recreation ground reinforcement



Pinned every 1m

Top soil brushed in

**The Problem:** The grassed recreation grounds were used weekly by the market.

Commercial vehicles and heavy pedestrian use meant that the grass became thin, bare and rutted in wet weather. This produced an undesirable surface to continue the markets.

**The Solution:** Turf reinforcement mesh was used to lay directly onto the existing grassed area. The plastic mesh was pinned using metal U-pins every 1m to hold the mesh down. Each roll of mesh was over lapped to ensure there were no gaps. A covering of top soil was spread over the mesh to fill in any uneven areas and to encourage the grass to grow through the mesh filaments quickly. The area was fenced off for a few weeks, and then mown as normal. Within a few months the mesh had completely disappeared under the surface as the grass roots interlocked with the mesh filaments, ensuring a stable reinforced grassed area clear of rutting.

<http://www.grass-reinforcement.com/images/uploads/file/CASE%20STUDY%20-%20Foxwood.pdf>

### Case Studies TURFPROTECTA™ TURF REINFORCEMENT MESH

Client: Enviro Mulch (UK) Ltd ([www.enviromulchuk.co.uk](http://www.enviromulchuk.co.uk))

Location: Foxwood, Lower Raydon, Suffolk.

Contractor: Brett Valley Maintenance Service Ltd

Product: TurfProtecta™ Premium 660g/m<sup>2</sup> 2m x 30m Green

Application: Grass Driveway and slope reinforcement



**The Problem:** As part of a major landscaping project, the access route/driveway and the adjacent banks were required to be reinforced to reduce the wear on the grass and the problems associated with rutting to the surface.

**The Solution:** Boddingtons' TurfProtecta™ turf reinforcement was specified to give the grassed surface reinforcement, so it could be used by occasional vehicles, and regular pedestrian use. TurfProtecta™ was laid directly onto a consolidated bed of seeded top soil. A further 20mm (approx) of seeded topsoil was added to cover the mesh. The area was left for a few months to enable the grass to grow.

**Case Studies TURFPROTECTA™ TURF REINFORCEMENT MESH**

Client: Enviro Mulch (UK) Ltd ([www.enviromulchuk.co.uk](http://www.enviromulchuk.co.uk))

Location: Foxwood, Lower Raydon, Suffolk.

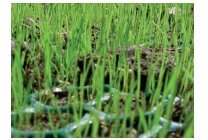
Contractor: Brett Valley Maintenance Service Ltd

Product: TurfProtecta™ Premium 660g/m<sup>2</sup> 2m x 30m Green

Application: Grass Driveway and slope reinforcement

**Conclusion:** The TurfProtecta™ installed onto a surface that had been sowed ensured the grass would grow from beneath the mesh upwards, and allow the roots to grow down towards the mesh from above.

This gave the grass the perfect reinforced root mass, capable of withstanding the loads to be imposed onto it.



**Technical product details:**

**Turfprotecta™**

<b>PHYSICAL CHARACTERISTICS:</b>	
Structure	Diamond
Polymer	HDPE Green
Colour	Green
U.V. Stabilized	Yes
<b>NOMINAL DIMENSIONS:</b>	
Width	2m
Length	30m
Weight per square metre	660g
Roll weight	40.6kg
Weight per liner metre	1340g
Mesh count in 20m	8.25 (+/- 0.25)
Aperture size (MD x TD)	22mm x 27mm
<b>TECHNICAL CHARACTERISTICS:</b>	
Measurement	Results
Tensile strength (MD)	6.2kN/m
Tensile strength (TD)	7.5kN/m
Elongation @ break (MD)	1120%
Elongation @ break (TD)	1050%



<b>Method</b>	ISO 10319
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<http://www.grass-reinforcement.com/index.php/products/image-gallery/turfprotecta-turf-reinforcement-mesh>

[Image Gallery](#)

			
Installation for a temporary car park	Mesh structure allows grass to grow through	Tenterden recreation ground is occasionally used for cars	Installation of an overflow car park
			
Newly sown grass grows through the mesh apertures	TurfProtecta® mesh structure is easy to handle	TurfProtecta® is fixed using metal U-pins	1 week after an installation
			
Newly landscaped installation	Grass quickly ensures the mesh disappears	TurfProtecta is ideal for landscaped areas	The mesh becomes hidden in the root mass

<http://www.grass-reinforcement.com/index.php/products/installation-services/turfprotecta-turf-reinforcement-mesh>

[Installation Services](#)



Boddingtons offer a high quality national installation service for both GrassProtecta® & TurfProtecta®. Our dedicated and fully trained team will ensure that the specified products are installed exactly as designed.







All installations may require a consultation visit by one of our technical sales managers to ascertain that the product is suitable for the proposed application. Filling of small depressions and repairing worn areas with a soil/seed mix to encourage growth is also part of the service.

Upon completion, our team will fence off the area to allow the surface to rapidly establish by restricting access to pedestrians and vehicles.

- National installation service by Boddingtons own team
- Installations carried out as per the product design requirements
- Site assessments carried out prior to installations

Our team are fully trained and are supplied with all the materials and tools required for a first class installation

Photos of some recent installations :

 <p>Installation at Northern Rugby Club</p>	 <p>Installation at Northern Rugby Club</p>	 <p>Installation at Cambridge Park &amp; Ride</p>
 <p>Installation for an overflow car park</p>	 <p>Completed Installation</p>	 <p>1 week after installation at Worcester university</p>

<http://www.grass-reinforcement.com/index.php/shop/turfprotecta-turf-reinforcement-mesh>

### **TurfProtecta®**

Please select your product and quantity from the table below. You can only add one product at a time to the shopping cart, so please use the 'Continue Shopping' button to add further products from the TurfProtecta® page. If you want to add alternative products to your cart, please select the 'PRODUCTS' tab above to search for the product you require.

Size	Grade	Colour	Mesh Aperture	Material	Part No.	Price
2m x 30m	Heavy	Green	22mmx27mm	HDPE	049967	£164.85
2m x 30m	Heavy	Black	22mmx27mm	HDPE	048175	£164.85
2m x 30m	Standard	Green	25mmx29mm	HDPE	049202	£144.95
2m x 30m	Standard	Black	25mmx29mm	HDPE	009862	£144.95
2m x 10m	Standard	Black	25mmx29mm	HDPE	057887	£62.50
2m x 10m	Standard	Green	25mmx29mm	HDPE	057870	£62.50

### Fixing Pins / Pegs

For best results we suggest securing TurfProtecta® every 500mm as a minimum, and advise 100 pins/pegs per roll.

Product	Size	Material	Outer	Part Number	Price
U-Pins	170mm x 70mm x 6mm dia.	Steel	50	041824	£36.75