

GrassMesh

Grass Protection Mesh

Technical Specification & Installation Guide

If you have a grassed area which requires protection from only foot and light vehicle traffic – for example garden machinery – then **GrassMesh** is a great alternative to our TurfMesh range.

GrassMesh is a much lighter form of grass protection intended for use in areas that are used solely by pedestrians and wheel-chair users.

GrassMesh is renowned for its flexibility, and can be used just as effectively on undulating areas as it can on flat ground. Available in three different grades, you're sure to find **GrassMesh** product to suit your needs.

GrassMesh 270 is suitable for occasional pedestrian and wheelchair use – if you're looking for more heavy duty applications try **GM450** and **GM640** – and is a great way to extend the life of green areas such as children's playgrounds, golf courses and woodland paths.

The design of our **GrassMesh** range ensures a discreet appearance that users will barely notice but will still protect your lawned area from erosion.

As well as using your grass as normal, you'll also be able to weed, treat and mow as usual too, making this product a well rounded, effective and cost-efficient product for both domestic and commercial applications.



What are SuDS?

Sustainable drainage systems (SuDS) are drainage solutions that provide an alternative to the direct channelling of surface water through networks of pipes and sewers to nearby watercourses.

By mimicking natural drainage regimes, SuDS aim to reduce surface water flooding, improve water quality and enhance the amenity and biodiversity value of the environment. SuDS achieve this by lowering flow-rates, increasing water storage capacity and reducing the transport of pollution to the aquatic environment.

The need for alternative drainage such as SuDS is likely to increase to meet environmental challenges such as climate change and population growth. Provision for SuDS and the national standards required for their design, construction, maintenance and operation is included in the Flood & Water Management Act 2010

Useful Resources

Flood & Water Management
Act 2010

Code for Sustainable Homes

Planning Policy Statement 25

**Light/Medium Duty Level
of Reinforcement**

No Excavation Required

Discreet Appearance

Can Be Mowed Over

Fast and Simple Installation

GrassMesh is a grass protector which is great for use on green surfaces employed for pedestrian use.

GrassMesh will help to protect grassed areas against erosion, rutting and puddling for temporary or permanent applications

Suitable for:

Paths & Walkways

Wheelchair Access

Domestic Gardens

**Landscaped, Non-Trafficked
Areas**

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Product Guide

GrassMesh can be laid on either existing grassed or on newly landscaped areas

Protects grass blade, root and rootzone soil to ensure year round use of your green areas

Reduces mud and soil migration during winter months, keeping homes, shops and event areas cleaner

Three different weights to choose from to suit your application:

GM270 - Light Duty
GM450 - Medium Duty
GM640 - Heavy Duty



GrassMesh is best laid between spring and autumn during the grass growth season

Technical Data

	GrassMesh 270	GrassMesh 450	GrassMesh 640
MATERIALS	HD Polyethylene	HD Polyethylene	HD Polyethylene
STRUCTURE	Hexagonal	Hexagonal	Hexagonal
COLOUR	Green	Green	Green
WEIGHT G/M ²	270g/m ²	450g/m ²	640g/m ²
APERTURE DIAMETER	30mm	30mm	30mm
THICKNESS	2mm	3mm	5mm
ROLL SIZES	1m x 30m 1m x 50m	1m x 10m 1.5m x 30m 2m x 10m 2m x 30m	1m x 10m 2m x 10m 2m x 30m
ROLL WEIGHT	8.1kg 13.5kg	4.5kg 20.3kg 9kg 27kg	6.4kg 12.8kg 38.4kg

LIGHT DUTY
GM270



MEDIUM DUTY
GM450



HEAVY DUTY
GM640



Our business mission is to become the UK's leading supplier of groundwork, civil and landscaping products. Over the last few years, our company has grown to become one of the UK's most reputable suppliers to these demanding specialist markets.

The extensive range of products we stock is tailored to cater for the needs of our clients, which we complement with unrivalled customer service and friendly, knowledgeable staff. We strive to build long-term working relationships with each of our customers to provide the best value for money without compromising on quality or service.

GrassMesh Installation Guide

GrassMesh is best installed during the grass growing season between Spring and Autumn. GrassMesh ideally needs to be fixed into ground that is well drained, firm and reasonably flat & level.

EXISTING GRASSED AREA INSTALLATION

1. Once you have identified the area in which your new **GrassMesh** will be installed, cut the existing grass on the shortest setting and remove any clippings by rake, garden vacuum or leaf-blower.
2. If needed, level out the existing area by filling in ruts or divots with a 70:30 mix of sharp sand and topsoil and then compact. These areas should also be seeded as this stage, following the seed coverage instructions set out by the seed supplier. Overseeding following installation can be done as required.
3. Before laying the **GrassMesh**, we would recommend unrolling it and leaving for a minimum of one hour to help the mesh regain its flatness to avoid any rutting. The **GrassMesh** can also be cut prior to install with garden secateurs if required.
4. Install the **GrassMesh** directly onto the existing ground, butting up any joins or additional rolls to avoid overlapping. If the installation is carried out in spring or summer, it is recommended that a 15mm gap is left between adjacent rolls and that rolls are pinned individually.

5. Pin the mesh to the ground with our metal pins or plastic anchors following our pinning diagram, which contains the recommended location of pins and how many are required per roll.

6. Install the first row of pins along the longest edge of the roll starting in one corner, ensuring that the mesh is as taut and flat as possible to avoid a ripple effect in the mesh.

7. Subsequent rows of pins should be inserted in the same manner as above in accordance with the pinning diagrams shown for your type of installation.

U Pins are best used on shallow or rocky ground as these are not likely to snap during installation.

J Pins are best used on soft clay areas as these are sunk deeper into the ground, providing optimal pull resistance.

Plastic Anchor Pegs are best used when there is a danger of underground electrical cables or in equestrian settings and should not be used to join two rolls. If two rolls are to be joined with a "butt-joint" we recommend using U Pins to provide the best joint, if using plastic anchor pegs each roll should be pinned individually following the pinning diagram.

8. **GrassMesh** can be trafficked straight after install if necessary, providing it was fitted on well drained, firm ground. Once the grass starts to grow through the mesh it can mowed, seeded and treated as normal. Best results are obtained by restricting trafficking until after the grass has thoroughly established through the mesh and has been cut several times.

NEWLY SOWN AREA INSTALLATION

1. Level and compact the existing soil surface, clearing off any debris.
2. If required, put down a layer of good quality top soil and seed the area, again compacting the area to provide a firm base.
3. Install the **GrassMesh** following points 3, 4 & 5 of the "Existing Grassed Area" instructions.
4. When **GrassMesh** is installed on a newly sown surface, we highly recommend that you avoid using the area for 4-6 weeks until grass has grown through the mesh, maturing enough for it to entwine with the mesh.

Maintenance Guide

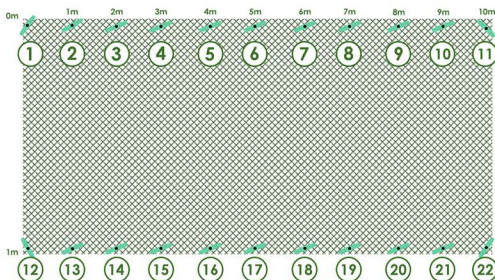
Mowing can be carried out as normal, but the blades should be set higher for the first 3-4 cuts to enable the grass to grow through and fully entwine with the structure

If you notice any "tenting" after install, this can be addressed by fitting additional Pins or Ground Anchors where required

Exposed mesh may present reduced traction in wet or frosty conditions and advisory signage to this effect may be required

GrassMesh Pinning Guide

GrassMesh Grass Reinforcement Mesh Technical Specification & Installation Guide

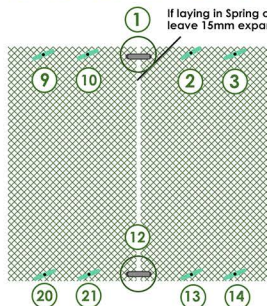


1m Wide Rolls Single Roll or Independent Pinning (U-Pins/J-Pins/Anchor Pegs)

Starting in the furthest corner, insert and firmly secure pegs along the longest edge of the mesh at a rate of 1 per metre. Ensure that the mesh is kept as taut and flat as possible.

Once the edge has been reached, return to the start and peg the second row in the same order, again ensuring flatness and tautness of the mesh throughout.

22 PEGS REQUIRED PER ROLL



If laying in Spring or Summer
leave 15mm expansion gap

Multiple Roll "Butt-Joint" Installation (U-Pins and/or Anchor Pegs)

If your installation requires more than one roll and you would like to join the ends of two rolls, this can be done by using U-Pins to physically attach the rolls jointly.

By using U-Pins as the last pegs of one roll (1 & 12) and the first pegs of the second roll, you can secure the mesh to the ground as well as securing it to the adjacent roll.

Fix the pegs in the same manner as described in the single roll pinning diagram, moving along the length of the roll, maintaining tautness.

Please note that U-Pins **must** be used to join rolls in place of Anchor Pegs

**20 PEGS + 2 PINS REQUIRED FOR FIRST ROLL
18 PEGS + 2 PINS EVERY ROLL THEREAFTER**



GrassMesh Anchor Pegs

160mm Long
Anti-pull ribs

Large head for easy install

Pack Sizes available; 25, 50 or 100

Safer than metal pins for use near power cables, machinery and animals



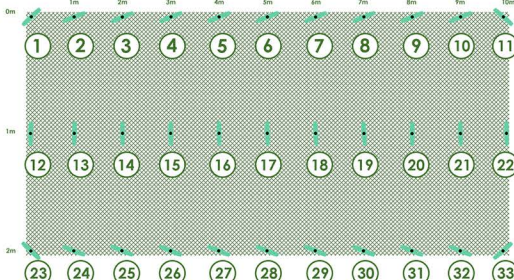
GrassMesh 3mm Diameter uPins

3 Dia Galvanised wire
150mm long

Manufactured from Galvanised steel

Pack Sizes available; 20, 50 or 100

Can be used to join multiple rolls of mesh



2m Wide Rolls Single Roll or Independent Pinning (U-Pins/J-Pins/Anchor Pegs)

Starting in the furthest corner, insert and firmly secure pegs along the longest edge of the mesh at a rate of 1 per metre. Ensure that the mesh is kept as taut and flat as possible.

Once the edge has been reached, return to the start and peg the second row in the same order, again ensuring flatness and tautness of the mesh throughout. Repeat for final edge.

33 PEGS REQUIRED PER ROLL



Plastic Anchor Pegs

Plastic anchor pegs should be installed "with the grain" of the mesh, meaning that the profile of the head should be inside the groove of the mesh.

Installing the anchor pegs ACROSS the "grain" may cause the peg to snap or work free.



Steel U-Pins

Similarly to anchor pegs, steel U-pins should be installed "with the grain". This will allow the U-pin to sink further into the ground and will make for a more solid installation.

U-Pins which have been left proud of the surface of the mesh may present a trip hazard.