

FLEXIMAS TURF PROTECTION INSTALLATION ADVICE



Fleximas turf protection is a heavy-duty extruded polymer grid, for permanently protecting and reinforcing grassed areas used by vehicles and pedestrians. To achieve the best results, the mesh should be laid down in the spring, when the grass will grow quickly through the mesh and the root mass will form an interlock with the mesh filaments. The protected area will soon resume its natural appearance and give a stable surface when protecting the area from damage by heavy weights.

Applications include:

Overspill car parks, helicopter landing pads, airfields, recreation areas, gateways, grassed access routes, temporary access routes, caravan parks, lawns subject to heavy pedestrian use and grass verges in urban/parkland areas.

Fleximas Turf Reinforcement Mesh 5162	
Polymer	HDPE (foamed)
Mesh Size	15mm x 15mm
Colour	Black
Weight g/m ²	1,250
Thickness	9.4mm
Roll Width	2m
Roll Length	30m
Tensile Strength MD	8.5kN/m
Tensile Strength TD	4.2kN/m
Yield Point Elongation MD	50%
Yield Point Elongation TD	75%

We recommend that you lay the mesh as follows, for best results.

(A) INSTALLATION PROCEDURES FOR EXISTING GRASSED AREAS:

1. Spring is the ideal time for laying Turf protect because the grass will grow quickly through the mesh and the root mass will interlock with the mesh filaments.
2. Prepare the area by filling any depressions with soil and sand and cut the grass as short as possible. If the mesh is being laid over clay soil, we recommend that a suitable drainage system be installed to allow drainage of excess surface water.
3. Lay the mesh flat over the area to be protected and secure both ends with metal fixing pins. For wider areas, rolls should be butted together and secured by placing metal fixing pins down each length and across each layer. Also pin down any area where mesh is not in contact with the ground.

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4. To promote root growth around the mesh and increase stability, cover the area lightly with good quality, sandy topsoil and, if necessary, cover any bare areas with grass seed.
5. Vehicles and pedestrians should be kept off the area until the grass has grown at least 25mm through the mesh and has been mown twice with the blades set high. Following which, the area can be rolled and treated with proprietary chemicals, as required.
6. Install in warm weather if possible, as the heat helps the plastic to settle quicker.
7. When mesh is unrolled it will come off the roll concave – we suggest you turn it the opposite way so that it will be convex, i.e. facing downwards.
8. When the mesh is pinned in place, driving a small vehicle/roller over the installation will help to settle the mesh.

(B) INSTALLATION PROCEDURES FOR NEWLY SOWN AREAS

1. The ground surface should be reasonably level and cleared of debris and any local depressions should be in-filled with a mixture of sharp sand and topsoil.
2. Prepare the surface as a cultivated and well-firmed seedbed.

WARNING!

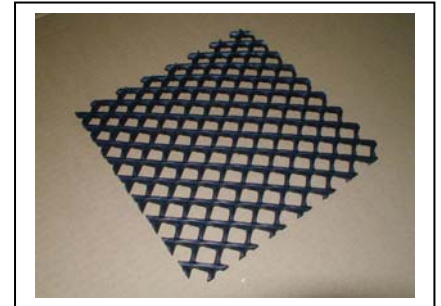
Until the grass has grown through the mesh and become established, the grass protection mesh may be slippery in wet weather and care should be taken if pedestrians are allowed to walk on the mesh during this period.

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TURF PROTECTION MESH 5162

MATERIAL: HDPE



Physical properties	Nominal value	Tolerances for 95 % of time
Thickness under 20 kPa (mm) NF EN 964-1	9.4	± 10 %
Mass per unit area (g/m ²) NF EN 965	1250	± 10 %

Mechanical properties	Nominal value	Tolerances for 95 % of time
Tensile strength (kN/m) MD	8.5	- 13 %
NF EN ISO 10319 CMD	4.2	- 13 %
Strain at maximum tensile stress MD	50	- 20 %
(%) NF EN ISO 10319 CMD	75	- 20 %

Hydraulic properties	Nominal value	Tolerances for 95 % of time
In plane flow capacity (m ² /s) (*) NF EN ISO 12958 (hydraulic gradient 1)		
20 kPa MD	2.1 E-03	- 20 %
100 kPa MD	1.9 E-03	- 20 %
200 kPa MD	1.8 E-03	- 20 %

(*): test between 2 rigid plates (hard/hard)

Durability:

- To be covered within 1 month after installation (weathering resistance EN 12224).
- Estimated durability: more than 25 years in all types of natural soils based on durability evaluation according to standards ENV ISO 13438 (oxidation resistance), EN 12225 (biological resistance) and ENV ISO 12960 A & B (chemical degradation).

MD: machine direction

CMD: cross machine direction

The values correspond to average results of tests made in our laboratory and outside institutes.