

Data sheet for ground

protection grids



Description

The ground protection grid is a reinforcement grid made of flexible elastomer. Thanks to its special wave-shaped structure and soft texture, the grid can be used in a variety of ways for ground protection.

The ground protection grid can be quickly and easily laid out on uneven surfaces such as lawns or sand to create a walkway or provide temporary ground protection at events. The ground grid is also used on flat surfaces such as concrete or tiles to create a non-slip covering, e.g. to improve occupational safety. However, the grid is mainly used as permanent ground protection on lawns.

After installation, the grid grows firmly and permanently into the turf. This prevents soil compaction under load and also protects the turf under the grid structure through the use of green spaces. This creates natural green spaces without soil compaction that can be used permanently, diversely and intensive use.

Function

Reinforcement - The oscillated plastic grid absorbs dynamic loads and distributes them over a large area. This prevents soil compaction and maintains natural drainage even under heavy loads or stress.

Protection - The flexible grid adapts to the respective substrate and creates a slip-resistant surface. In addition, the grid structure of the ground protection grid protects the underlying soil from wear and tear and creates a substrate with increased occupational safety and a natural lawn surface with fall protection.

Applications

- **Playgrounds** – fall protection under playground equipment, full-surface turf growth, slip-resistant and tested fall height
- **Events** – temporary use as ground protection on lawns, sand, concrete, or snow, tread-resistant, slip-resistant
- **Animal husbandry** – ground protection in stables, walkways, exercise areas, or resting areas
- **Occupational safety** – non-slip surface on wet floors

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Technical data

Mechanical properties	
Tensile strength (EN ISO 10319) kN/m	12
Maximum tensile elongation (EN ISO 10319) in %	130
Physical properties	
Raw material	LDPE (low density polyethylene) + elastomer
Structure	Oscillates
Color	Dark green
Thickness (EN ISO 9863) mm	13.5
Residual thickness @ 500 kPa (EN ISO 844:2007) %	69
Weight per unit area (EN ISO 9864)	3.6 kg/m ² (7.2 kg/lm)
Critical fall height (BS EN 1177)	1.8 m
Resistance	
Microbiological resistance (EN ISO 12225) %	No influence
Resistance to acids/alkalis (EN ISO 14030) %	No influence
UV resistance	Yes
Roll dimensions	
Roll width	2.0 m
Roll length	10 m
Roll weight	72 kg

Notes

- The ground protection grid can be laid directly on existing lawns without additional substructure, but can also be installed on topsoil when laying new turf.
- In addition, the material has been tested for a critical fall height of 1.80 m and thus offers safe protection for children playing. The natural growth of the lawn is also protected.
- The ground protection grid is made from an environmentally neutral raw material and therefore has no impact on the soil or groundwater.

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