



Product Name:

Branded as **StabiliGrid-S50™** in the USA, bearing the German manufacturer's mark "ecoraster 101 S-50".

Product Description:

Latticed elements 33.3 x 33.3 cm; 5cm high with 2.5mm wall thickness, made of durable elastic high-pressure polyethylene with patented interconnecting system, (Patent No. 0576939 EPA/EPO). Produced from selected pure recycled PE. The elements are resistant to fracture (flexible from -50° to +90° C || -58° to +194° F), resistant to UV and freezing, long-lived, incorruptible, non-polluting as well as resistant to ammonia, acids, street salt, hot asphalt, gasoline and petroleum distillates. 100% recyclable.

(According to TÜV/Environmental Certificate **DIN 38412**).

It has been demonstrated that **StabiliGrid-S50™** does not contain any pollutants for ground water and ground organisms.

Suggested Applications and usages:

The following typical, generic information is provided for illustration purposes only.

The following are provided only as concepts and guidelines.

These are not provided as specific installation instructions. Please request information concerning your project ...

- ▶ **Green Roofing:** to stabilize the vegetated (grassed) roofs, allowing pedestrian traffic on the pervious, green roof.
- ▶ Drainage culverts and ditches
- ▶ Slope retention and erosion control
- ▶ **Pervious Parking - Temporary and/or Occasional "park on the grass" applications:** reinforcement of green grassed surfaces (lawns, fields, etc.) against damage from pedestrian or automobile traffic.
- ▶ **Grass Reinforcement** - prevention of damage to root structures from vehicular or pedestrian traffic

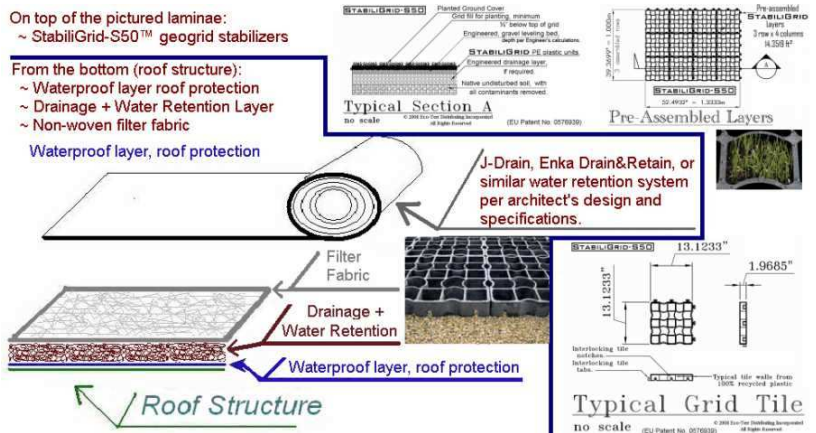
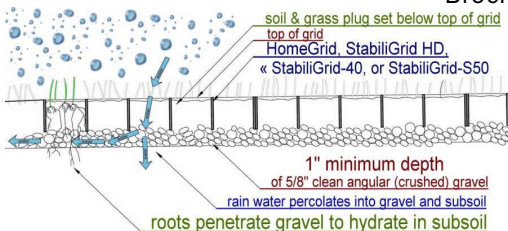


Installation:

STABILIGRID-S50™ may be "cut to fit" at the installation site quickly and free of problems, pre-cutting is not required. They may be cut with an angle grinder or circular saw, for small jobs with the compass saw or handsaw and the like.

For more information, please refer to:

Demonstrations, examples » www.stabiligrd.net
More technical information (for design/build users) >> www.stabiligrd.biz
Brochures, other media » www.ecoterr.com/et_brochure_downloads.html



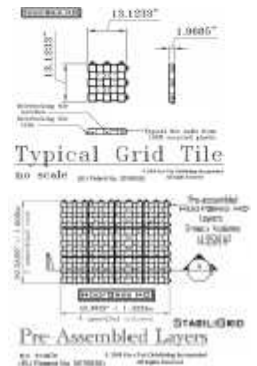
Technical Information:

* According to current state of knowledge without claim to completeness.

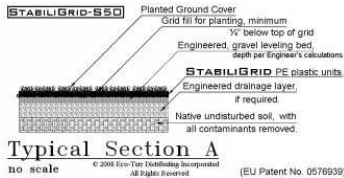
STABILIGRID



- Dimensions: 33.3 x 33.3 x 5.0 cm
- Lattice size: 6.0 cm
- Web width: 0.6 mm
- Porosity: 90% Open**
- Wall thickness: 2.5 mm
- Own weight: 6.84 kg/m² (1.40094 lbs/ft²)
- Resistance to Pressure: 120.0 MT/m² (24,577.94 lbs/ft²)
- Max. shearing load: ~ 1.4 to/m
- Load capacity: 20 to/axle (22.45 US tons/axle)
- Tested by: TÜV, BECETEL and LGA
- Standard color: black

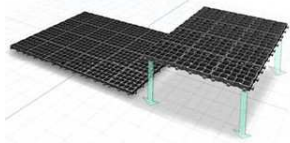


Material: 100% PE base material (Polyethylene) [$<5\%$ pigment, Anti-UV, carrier agents, etc.]



- Configuration: Coloring by means of 1-3% pigment, UV-Stabilized
- Stability of shape: Temperature range from -50° to + 90° C
- Change of Shape: ~0.5% (at standard temperature +20° to 80° C)
- Absorption of moisture: 0.01%
- Environmental compatibility: Completely harmless to plants, animals and microorganisms, material tested groundwater neutral
- Solubility: Resistant to acids and leaching solutions (salt, Ammonia, acid rain, etc.) as well as alcohol.
- Physical strength: Safety factor 1.3
- Joint strength of the latches: $\leq 5,600$ newtons/meter
- Guaranteed resistance to pressure of the surface: 120,000 kg/m² (24,577.94 lbs/ft²)
- Maximum shearing load of the attachment elements: 1.4 metric tonnes/m
- Delivery form: 43 sheets, 12 pieces per sheet = 516 pieces (57,19 m², 618 ft²) per pallet
- Installation speed: up to 100 m² per hour per worker (1076 ft²/man-hour)

Ground Preparation: (generic, not site-specific):



- Depends upon site condition: LOCAL conditions and usage will prevail.**
- ▶ **Drainage** - if required: Construct a drainage layer using 5mm to 32mm clean angular rock (a.k.a. "ASTM 57 Clean" 5/8" to 3/4" inch diameter).
 - ▶ Depth of this layer will depend upon the local soil type, ground condition and climate. From zero to 45-60 cm depth (0" to 24").
 - ▶ **Subbase:** Introduce an equalizing (leveling or "choker") layer of 5/8"-3/4" diameter clean/washed, angular gravel. Depth of this layer should be 3 to 5 cm (1.2" to 2").

Installation:



- ▶ Lay out the pre-assembled 12-piece layers of grids, snap them together and consolidate by tamping with plate vibrator or heavy cylinder.

Backfill:

- ▶ For backfill, an angular or round medium may be used.
- ▶ Fill the open cells with 5/8" diameter or smaller clean, washed gravel.

Finished Surface:



- ▶ An overfill may be used, but it is not required.
- ▶ An overfill is not advised or specified: for pervious paving applications.
- ▶ For backfilling, and for the overfill/topcover, a rounded clean stone ("pea gravel," "coarse grit" or "buckshot") may also be used.
- ▶ The size of the backfill medium should be sufficient to preserve drainage (sufficient void space), and to resist migration (due to wind or water), while remaining small enough to work easily using hand tools.

Delivery:
Pack dimensions:

- Pallet= 57,19m² (618ft²) = 43 layers (1 layer = 12 pieces) = 516 pieces/Pallet
- Dimensions of pallets:** 105cm x 135cm x 223cm | 42"x53"x92" (BaWaHa)
- Weight of Pallets:** ca. 400 kg/pallet || app. 881.85 lbs/pallet
- Contents of Container:** 20 Pallets/container (3 pal. are hand packed) = 1,143.80 m²/container = 12,342 ft²/container

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