



Product Name:

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

Product Description:

Latticed elements 33.3 x 33.3 cm; 3cm high with 4mm 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 HD™** 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 ...*

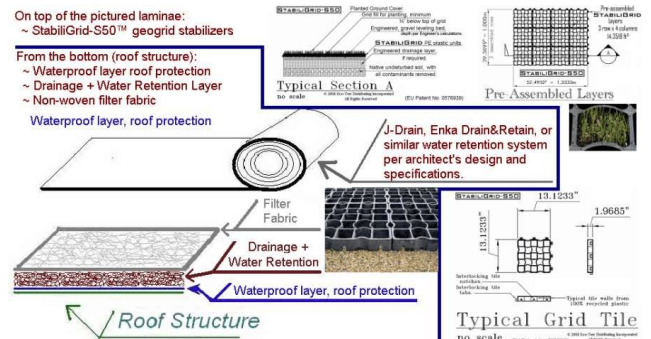
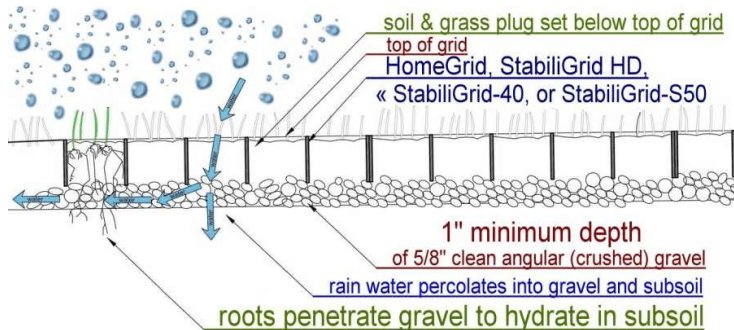
- ▶ Fire Department and emergency access ways/entrances
- ▶ Loading zones
- ▶ Construction site paths and staging areas
- ▶ Flight field entrances and parking lots
- ▶ Helicopter landing places
- ▶ Drainage culverts and ditches
- ▶ Slope retention and erosion control
- ▶ Pervious Parking - *green grass parking lots*
- ▶ Pervious Parking - natural crushed gravel roadways and driveways.
- ▶ Grass Reinforcement - prevention of damage to root structures from traffic

Installation:

**STABILIGRID HD™** 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.stabiligrid.net](http://www.stabiligrid.net)  
More technical information (for design/build users) >> [www.stabiligrid.biz](http://www.stabiligrid.biz)  
Brochures, other media » [www.ecoterr.com/et\\_brochure\\_downloads.html](http://www.ecoterr.com/et_brochure_downloads.html)



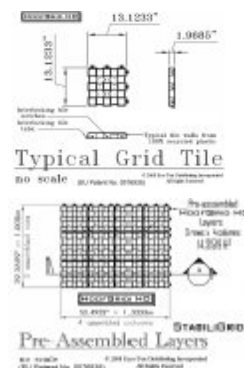
**Technical Information:**

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

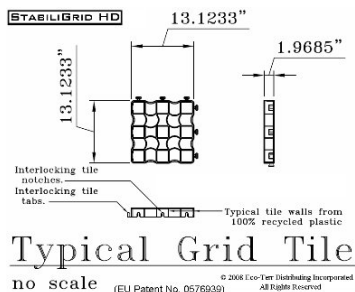
# STABILIGRID



- Dimensions: 33.3 x 33.3 x 5.0 cm
- Lattice size: 6.0 cm
- Web width: 0.6 mm
- Porosity: 82% Open**
- Wall thickness: 5.0 mm
- Own weight: 9.78 kg/m<sup>2</sup> (1.956 lbs/ft<sup>2</sup>)
- Resistance to Pressure: 350.0 MT/m<sup>2</sup> (35.84 tons/ft<sup>2</sup>)
- 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

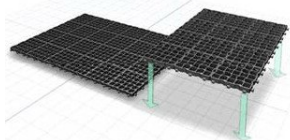


**Material:** 100% PE base material (Polyethylene) [ $<5\%$  pigment, Anti-UV, carrier agents, etc.]



- Configuration: Coloring by means of 1-3% pigment, UV-Stabilized
- Stability of shape: Temperature range from  $-50^{\circ}$  to  $+90^{\circ}$  C
- Change of Shape:  $\sim 0.5\%$  (at standard temperature  $+20^{\circ}$  to  $80^{\circ}$  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:  $<4,900$  newtons/meter
- Guaranteed resistance to pressure of the surface: 350,000 kg/m<sup>2</sup> (71,685.7lbs/ft<sup>2</sup>)
- Maximum shearing load of the attachment elements: 1.4 metric tonnes/m
- Delivery form: 43 sheets, 12 pieces per sheet = 516 pieces (57,19 m<sup>2</sup>, 618 ft<sup>2</sup>) per pallet
- Installation speed: up to 100 m<sup>2</sup> per hour per worker (1076 ft<sup>2</sup>/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= 57,19m<sup>2</sup> (618ft<sup>2</sup>) = 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. 560 kg/pallet || app. 1,235 lbs/pallet
- Contents of Container:** 20 Pallets/container (3 pal. are hand packed) = 1,143.80 m<sup>2</sup>/container = 12,342 ft<sup>2</sup>/container

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