



# ECO - TERR Distributing Inc.

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## German Manufacturer's Fact Sheet

(translation from German into English 31 March 2006)

### Product Name:

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

### Product Description:

Latticed elements 33.3 x 33.3 cm; 5cm high with 5mm wall thickness, made of durable elastic high-pressure polyethylene with patented bonding-plug system, (Patent No. 0576939 EPA/EPO) produced from selected pure recycled PE. The elements are resistant to fracture (-50° to +90° C), resistant to UV and frost, long-lived, incorruptible, non-polluting as well as resistant to ammonia, most acids, street salt, hot asphalt, gasoline..., and 100% recycled content/recyclable content. (According to TÜV/NORD Environmental Certificate). It has been demonstrated that **HoofGrid HD** and **StabiliGrid** do not contain any pollutants for ground water and ground organisms.

### Suggested Applications and usages:

- ▶ 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
- ▶ **Equine Applications:**  
Horse paddocks, roundpens, turnouts, barn aisles and stalls, stall runouts, arena, feedroom flooring, wash area, trailering areas, crosstie posts, etc.
- ▶ **Cattle and Dairy Applications:**  
Feedlot footing, pasture management (prevention of nutrient runoff into surface waterways), exercise/turnout areas, pens, traffic areas through pastures (prevents soil compaction/mud creation), etc.

### Installation:

**HOOFGRID HD** and **STABILIGRID** 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.

Technical Information:

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



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: 11.0 kg/m<sup>2</sup>  
 Resistance to Pressure: 350.0 to/m<sup>2</sup>  
 Max. shearing load: ~ 1.4 to/m  
 Load capacity: 20 to/axle (metric tons)  
 Tested by: TÜV, BECETEL and LGA  
 Standard color: black



**Material:** PE (Polyethylene)

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: <4900 N  
 Guaranteed resistance to pressure of the surface: 350,000 kg/m<sup>2</sup>  
 Maximum shearing load of the attachment elements: 1,4 to/m  
 Delivery form: 43 sheets, 12 pieces per sheet = 516 pieces (57,19 m<sup>2</sup>, 630 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)

**Underground Construction:**

**Depends upon site condition.** Suggestion: Construct a basis of gravel 5/32 on the foundation soil with a slope of about 1-3° depending on the load 45-60 cm. Introduce an equalizing layer of 2-5 cm fine gravel (5/8" clean, crushed rock), lay out the pre-assembled 12-piece layers of grids, snap them together and tamp with plate vibrator or heavy cylinder (do NOT compact). **Ready.**

**Other Variations:** For additional or special applications contact us!

**Filling for Landscaping:**

Fill the honeycombs with a commercial mixture, or one of 60% sand and 40% humus, sow with grass seeds, with 1-2 cm overfill above the edges of the grids. After placement and during the germination phase "water" sufficiently.

**Fine Gravel Filling:**

Fill the honeycomb cells with fine gravel 3/5 (or of equal value) may be overfilled if desired.

**Delivery:**

Pallet= 57,19m<sup>2</sup> (1018 ft<sup>2</sup>) = 43 layers (1 layer = 12 pieces) = 516 pieces/Pallet

**Pack dimensions**

Dimensions of pallets: 105cm x 135cm x 223cm (BaWaHa)  
 Weight of Pallets: About 605 kg/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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