



**Product Name:**

Branded as **HomeGrid™** in the USA, bearing the German manufacturer's mark "ecoraster 101 E-30" or "ecoraster 101 EL-30"

**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 **HomeGrid™** does not contain any pollutants for ground water and ground organisms, and does not decay into toxic materials.

**Suggested Applications:**

- ▶ Side yards at homes
- ▶ Slope retention for hillsides and erosion control
- ▶ Driving roadways through lawns
- ▶ Driveways and parking areas.
- ▶ Drainage culverts and ditches
- ▶ Dog kennels and runs
- ▶ Grassy Park public areas

**Installation:**

**HomeGrid™** 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:**

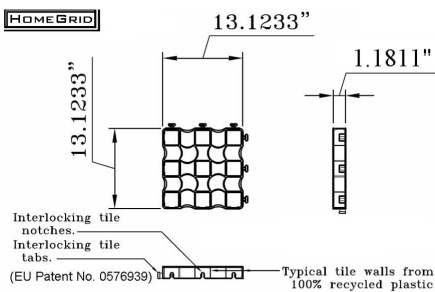
\* According to current state of knowledge without claim to completeness.



Dimensions: 33.3 x 33.3 x 3.0 cm ||  
 Lattice size: 6.0 cm  
 Web width: 0.6 mm  
 Wall thickness: 4.0 mm  
**Porosity 82% open**  
 Own weight: 6.20 kg/m<sup>2</sup>  
 Resistance to Pressure: 250.0 to/m<sup>2</sup>  
 Max. shearing load: ~ 1.1 to/m  
**Load capacity: 20 MT/axle (22.45 US Tons/vehicle axle)**  
 Tested by: TÜV and LGA  
 Standard color: black

**Material:**

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



**Typical Grid Tile**

no scale

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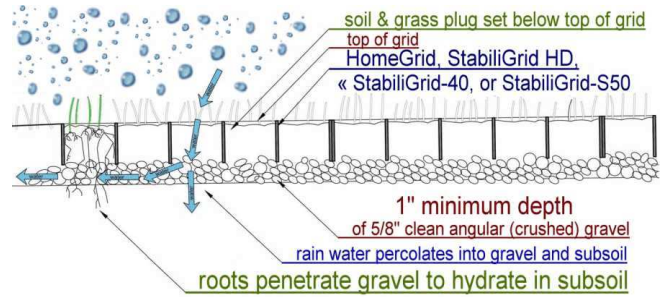
Configuration: Coloring by means of 1-3% pigment additives, UV-Stabilizers, etc.  
 Stability of shape: Temperature range from -50° to +90° C  
 Change of Shape: ≤0.5% (at standard temperature +20° + 80°)  
 Absorption of moisture: 0.01%  
 Environmental compatibility: Non-toxic to plant and animal life, material tested groundwater/surface water neutral; does not decay into toxic materials, etc.  
 Solubility: Resistant to acids and leaching solutions (salts, ammonia, acids, etc.), petroleum distillates, solvents, etc.  
 Physical strength: Safety factor 1.3  
 Joint strength of the latches: ≤ 530 N  
 Resistance to pressure of the surface (compressive strength): 250,000 kg/m<sup>2</sup> || 51,204 lbs / ft<sup>2</sup>  
 Maximum shearing load of the attachment elements: 1,1 to/m  
 Delivery form: 71 sheets, 12 pieces/sheet  
 each pallet = 94,43m<sup>2</sup> = 1018.9 ft<sup>2</sup>  
 Installation speed: ≤ 100m<sup>2</sup> (1,076ft<sup>2</sup>) per hour per worker

The following typical, generic information is provided for illustration purposes only. It is only applicable to HomeGrid™.

For StabiliGrid™ or HoofGrid™ information please refer to those technical data sheets, available at: [www.stabilgrid.biz](http://www.stabilgrid.biz) or [www.hoofgrid.biz](http://www.hoofgrid.biz)

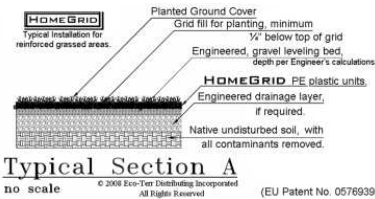
The following are provided only as concepts and guidelines. These are not provided as specific installation instructions.

**Please ask us for information concerning your project ...**



**Ground Preparation**

(generic, not site-specific):



**Depends upon site condition: LOCAL conditions and usage will prevail.**

- ▶ **Drainage** - if required: Construct a basis of clean gravel sized 2-5 cm (1.2 to 2" inch) diameter clean angular rock upon the foundation soil. The depth depends upon the intended application, upon the expected traffic load and frequency/patterns, and upon the soil type: up to 45-60 cm (0" to 24").
- ▶ **Subbase:** Introduce an equalizing (leveling or "choker") layer of 15-20mm (5/8" to 3/4") diameter clean/washed angular rock.
- ▶ **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:** with appropriate medium as desired.

**Landscaping and Non-traffic Surfaces:**

Fill the grid cells with a commercial mixture, or engineer the topsoil with 60% sand and 40% humus (as locally required), sow with a locally appropriate variety of grass or groundcover.

**For NON-Traffic surfaces, soil stabilization purposes:** you may overfill 1-2 cm above the top edges of the grids. Please note that the grids will not be supporting vehicular or pedestrian traffic.

After seeding and during the germination phase, water or irrigate sufficiently. Because grids prevent soil compaction, aeration is not required.

**Grassed Traffic Surfaces:**

For pedestrian or vehicular grassed traffic surfaces, cells must be under-filled. Backfill with topsoil to approximately 1/2" from top edges of the grids. After seeding and during the germination phase, water or irrigate sufficiently. Because grids prevent soil compaction, aeration is not required.

**Gravel Traffic Surfaces:**

Fill the cells with clean stone ("pea gravel," "coarse grit" or "buckshot" may be used instead of crushed rock), and overfill by 5 cm (2 inches).

**NOTE:** overfilling with gravel results in an impervious (impermeable) surface. To achieve a water-permeable, pervious gravel surface, please use StabiliGrid-40™, StabiliGrid-S50™, or StabiliGrid HD™.

**REASON:** the stone on the surface may eventually become compacted, therefore impervious. For a permanently pervious, water-permeable roadway the vehicles' tires must be supported by the exposed edges of the grids.

<b>Delivery:</b>	1 Pallet = 94,43m <sup>2</sup>	71 layers (each layer consisting of 12 pieces) = 852 pieces / Pallet = 1018.9 ft <sup>2</sup> / Pallet
<b>Pack dimensions:</b>		
	Dimensions of pallets:	105cm x 135cm x 223cm (BaWaHa)
	Weight of Pallets:	About 585 kg/pallet    1,069 lbs. (avdp)
	Contents of Container:	20 Pallets/container (hand packed) = 1,888.60m <sup>2</sup> /container = 20,379 ft <sup>2</sup> /container (AVDP)

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