

## **ECORASTER®**

B8 Ventures Ltd. is pleased to provide you with the following information about our product. Please be aware all information contained within this file is proprietary for our Ecoraster e-series of permeable pavers.

### Ecoraster Diagram



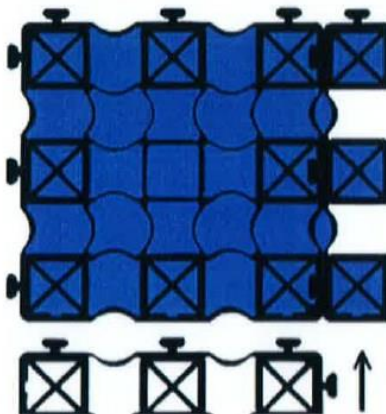
The Ecoraster e-series of permeable paving by B8 Ventures Ltd. is 100% recycled plastics and is exclusively carried by B8 Ventures Ltd. The above overhead cross section shows our system which has reinforced tabs which interlock with the next section of Ecoraster. The above diagram the white space indicates void area – with near 90% the polyethylene plastic tabs and walls. The engineered design spreads the weight of vehicles and stops the compaction of fill material providing you with 90% previous area.

Wall thickness:

E50 – 5mm with a wall height of 50mm

Ecoraster products should be tabbed together prior to filling. The diagram below shows how the tiles of grid interlock. The area indicated in blue will be your fill material. We strongly suggest for gravel fill that you choose a 'clear washed' or 'clean' gravel as this will allow water to flow through into your sub-base.

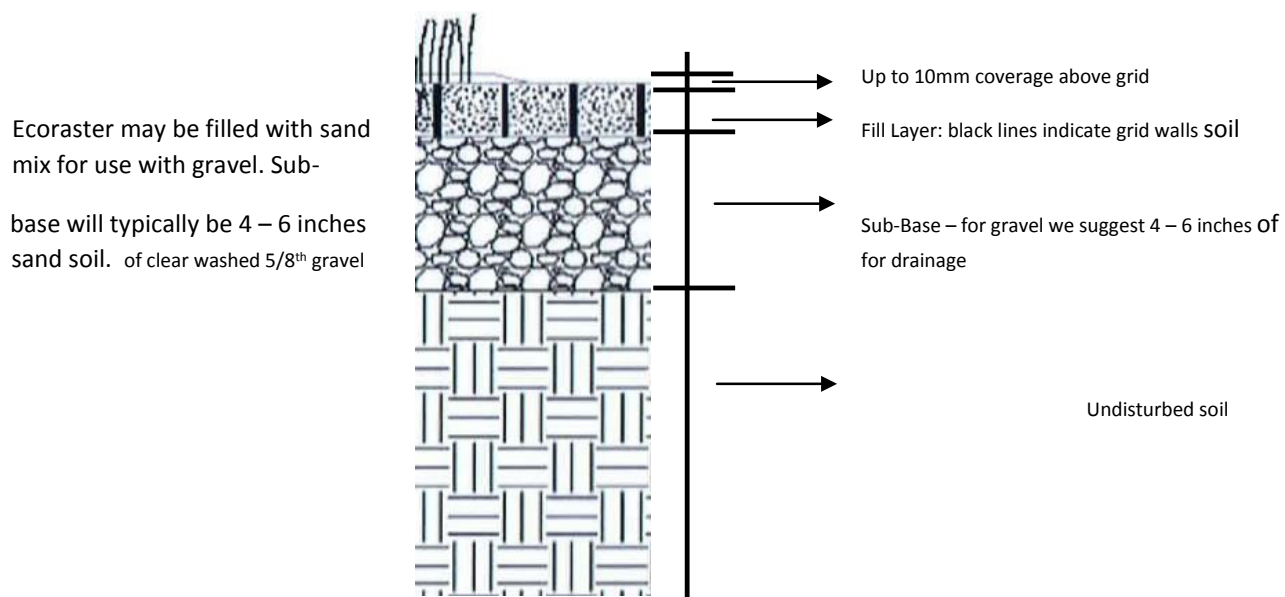
**Diagram 2:**



Where the grid tabs are together you get a reinforced edge which is critical to prevent raveling in the turning radius of your vehicles.

### Fill Cross Section

We always suggest you consult with local soil engineers or landscape architects about the conditions at your jobsite. Because of the structural design of the grid we suggest a high sand content to ensure optimal long term drainage when using sand and gravel. Please use the below as a guide:



### Ecoraster Cross Sectional Diagram

The following photo should provide you with a clear image of our Ecoraster product:



### Install Procedures for Gravel/Sand Applications

**Note:**

This is to be used as a guideline only and is by no means the only way in which the product can be installed. Site and soil conditions may warrant a change from these procedures. The installer may want to seek the advice of a soils engineer or other professional for their specific site conditions and needs. Please check with the local governing bodies for compliance to local codes.

Ecoraster can be installed over almost any type of flat sub base but the desired effect can differ greatly from site to site due to the variables in site conditions. This is a typical installation procedure for Ecoraster E50 when a gravel or sand fill material is used.

#### Sub Base Preparation & Installation

Ensure that:

- Area is flat (not necessarily level) for poor draining areas a 1% slope of sub grade is recommended
1. Excavate for sub base and grid as determined by soil and loading requirements. Check with a soils engineer as to the specific requirements for your project.
  2. Place and compact a gravel drainage layer using a clear or washed gravel of varying size. Size and depth of gravel to be determined by soil and loading requirements. The better the preparation of the sub base the easier the grid can be installed.

### **Ecoraster Installation**

1. The grid comes preassembled in 3 x 4 sheets. It does not matter which way the sheets are started, so calculate which way will require less partial sheets or cutting.
2. Place a sheet of Ecoraster in the corner of the project with the tabs facing inwards (i.e. tabs in the direction of area to be filled). This placement allows you to set the next sheet of grid down over the exposed tabs. Lay and entire row of Ecoraster along the width of the area first, locking the tabs in place.
3. Go back to the original corner piece and lay a row of Ecoraster along the length of the area, locking the tabs in place. Once this is complete you should have formed an L shaped area of completed grid. The tabs should always be facing in the direction of the area to be filled.
4. Proceed with laying the remaining sheets of Ecoraster down, completing one row before starting the next and making sure that the tabs are locked into place.

#### Note:

- The plastic grid will expand in hot temperatures, therefore, leave an area around curbs, posts, poles and other solid objects ( i.e. don't place the grid in tight to edging or curbs as the space will be filled once the infill material is placed). One to two inches is usually sufficient.
  - Cuts, if required, can be made with a reciprocating saw (sawzall, jig saw, skill saw, etc.) using a general purpose blade.
  - Sheets can be separated if needed by placing a dowel or piece of wood (a 2x4 works well under the grid and stepping on the section adjacent to the dowel.
5. Once you have completed the install run your plate compactor over the Ecoraster to help settle the sheets into the base.

#### Note:

- Some plate compactors come equipped with a plastic sheet attached to the metal base and are used for paving stone installation. This plastic sheet does not always work well with the plastic grid as it does not slide on the grid.
  - Do not run the compactor over the Ecoraster more than once as excessive settling may occur.
6. The grid can now be filled with your choice of sand or gravel. Start filling at one end of the area and rake or sweep the fill material into the cells ensuring that each cell is filled. The margin area around the edges can also be filled at the same time. The grid should be completely covered, with at least 1 to 2 inches of fill material on top of the grid.

#### Note:

- Fill the areas before driving over them with either truck or skid steer equipment.
- Care should be taken when back blading the fill material as not to damage the grid.
- Some settling of the fill materials may occur so either more fill can be added a few days after or you may slightly over fill the cells if desired.

FOR MORE INFORMATION CONTACT US

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