



DRAINPANEL Specification item (*basin package*)

Supply and installation of a drainage underground basin with retention capacity as per the project, realized with a set of modular stackable PP elements, such as DRAINPANEL GEOPLAST, 112x112xH23 cm, with a vacuum index of 96%, assembled by brick technique with DRAINPANEL HALF elements of dimensions 56x112xH23. The plastic structure must be completed with modular PP elements, called DRAINPANEL GRID, 28x112xH3.8 cm in size, which are applied to the DRAINPANEL and DRAINPANEL HALF elements forming the top layer.

Laying a layer of fine granular material (washed gravel 8/16 mm or coarse sand) on the bottom of the excavation of thickness as per project and laying a warp weft geotextile.

Installation of the DRAINPANEL elements according to the design specifications and lining of each side and top of the plastic structure with a warp weft geotextile.

Installation of hydraulic connections according to the design specifications.

System blank with fine granular material (recommended size 8/16 mm) laid for homogeneous progressive layers 15-30 cm thick, properly compacted with manual medium. Covering of the top of the structure with fine granular material of the same typology as the rewoven, according to the thickness of the project, laid in homogeneous progressive layers 15-30 cm thick, adequately compacted with manual medium. Finishing according to design specifications.

The DRAINPANEL elements must meet the following requirements:

1. Concentrated load resistance equal to:
 - 1,200 daN with load applied to the centre of a single cone in the central area of the single layer sample;
 - 950 daN with load applied to the centre of the single cone positioned at an angle of the single layer sample;
 - 1,300 daN with load applied to the sample centre (single-layer) between the four edges of four adjacent cones;
 - 850 daN with load applied to the centre of a single cone in the central area of the three-layer superimposed sample;
 - 600 daN with load applied to the centre of the single cone positioned at an angle of the three-layer overlapping sample.

2. Lateral resistance at maximum applied load of 7.120 daN, applying the load by means of a steel flat distributor (dimensions 115 x 70 x H2 cm) in the right-angle direction with respect to the direction of stacking of the four layers of DRAINPANEL.
The sample tested is obtained by superimposing four layers (each layer is rotated by 90° with respect to the next) according to the respective joints. The four overlapping panels are held together by means of a system of two side plates and 8 steel bars (fixed to the plates with suitable nuts) which allow the sample to be held together and confined during the lateral loading test.

3. To be produced by a company certified according to ISO 9001 standard.