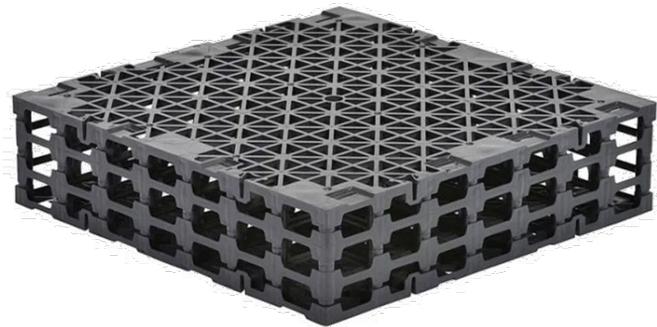


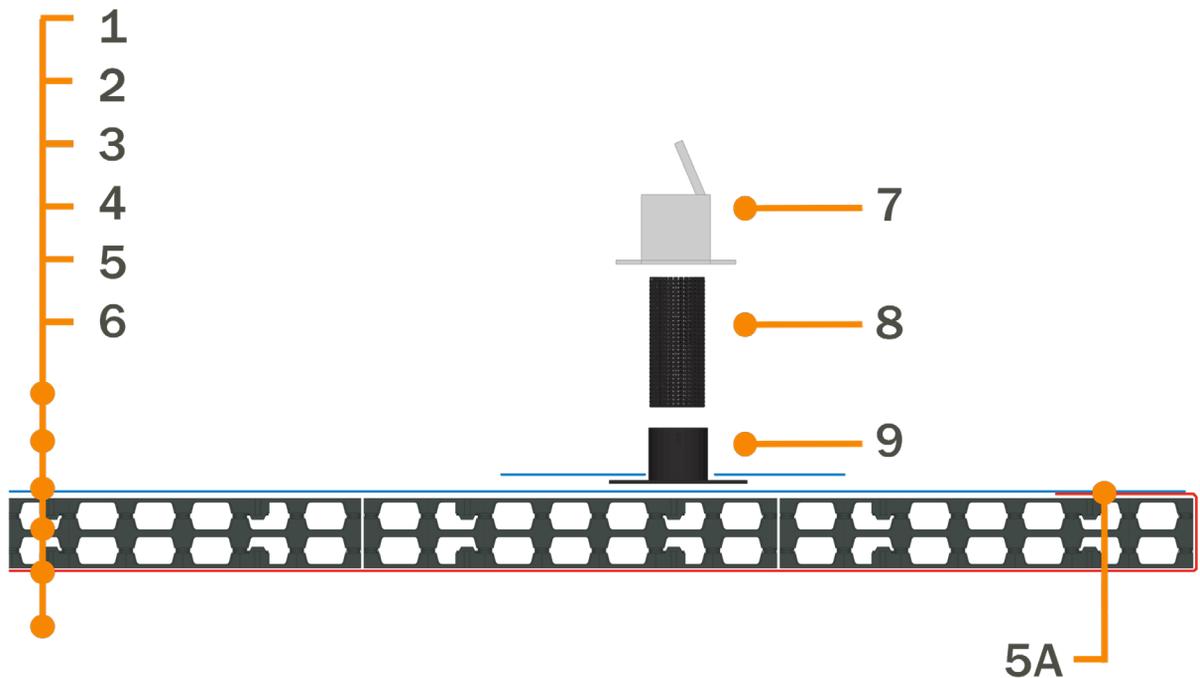


Vario Treebox

Raft system (Sandwichsystem) on top of structural soils



Abstract view of raft system installation



1. Pavement ; e.g pavers
2. Bedding sand; Minimum 5 cm
3. Separation fabric; Vario textile top
4. Sandwich boxes; Vario treebox incl v-connectors
5. Reinforcement fabric; Vario reinforcement TRC30
- 5A. 20 cm overlap on top of the boxes
6. Structural soil
7. Treevent opening ; End cap 100
8. Extension 80mm necessary if road built up layer > 18cm
9. Connecting plate; Box inlet 80mm

Notes before starting to install the raft system.

Before installing a raft- (sandwich) system, there are several tasks that need to be taken care of upfront.

See images and text below.



Load-bearing structural soil/ substrate.

A sandwich construction is applied on top of a structural soil (sandbased- or gravel based structural soil) or on top of a pre-existing load-bearing soil.



Levelling the sub-base

Sandwich construction must be applied on a levelled subsoil.

NOTE : Use of sandbased structural soils (Amsterdam treesand) :

If properly installed, Amsterdam treesand is not compacted at maximum proctor. As a result, Amsterdam treesand is likely to settle due to natural settlement and compaction caused by traffic passing over.

The Dutch guidelines therefor indicates that 3 cm of subsidence should be anticipated in the first year after construction.

If the subsoil subsides, the raftssystem and paving will also subside.

Installing the Vario Treebox raft sytem.



Roll out reinforcement textile.

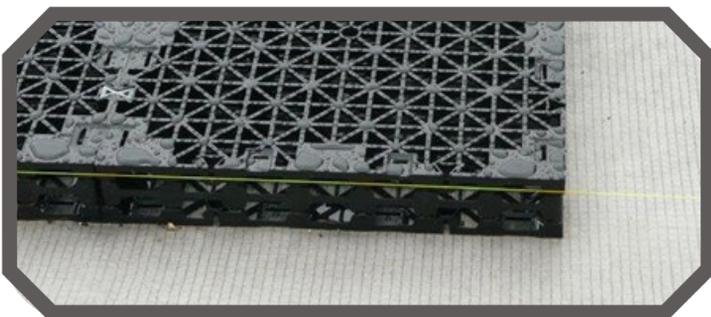
Reinforcement textile comes on the underside of the boxes. It should later be folded on top of the boxes at least 20 cm. Keep this in mind to make sure you leave enough excess length during rolling out and cutting.



Excess length and overlap

* Apply the reinforcement fabric at least the (H)eight of the crates + 20cm beyond the perimeter of the raftsystem.

* The mutual overlap of the reinforcement fabric at least 20cm.



Installation of the Vario boxes.

The Vario boxes are placed on the reinforcement fabric. The boxes are connected at the top and bottom with connectors to form a rigid matrix.



Cutting the Vario to size

The boxes can easily be cut to size to achieve the right surface area. Or to bypass any obstacles.



Optional: filling with sandwich soil
If specified, sandwich soil should be applied in the boxes. Use dry and sieved material for this. To ensure easy infill.



Wrapping reinforcement fabric
Fold the reinforcement fabric around to ensure that all sides are sand-tight. And there is at least 20 cm on top of the boxes.



Applying separation fabric
The top side can now be covered completely sand-tight with a separating fleece. Mutual overlap between several parts of separating fleece of approx. 25 cm.



Optional: sandwich aeration
The aeration set consists of an inlet plate and a steel end cap. Use an extra piece of separation cloth for a perfect sand-tight connection. Note: do not cut open the previously placed separation cover.



Finishing
The rest of the road built up can now be applied. Use of sand/cement mix is not recommended.