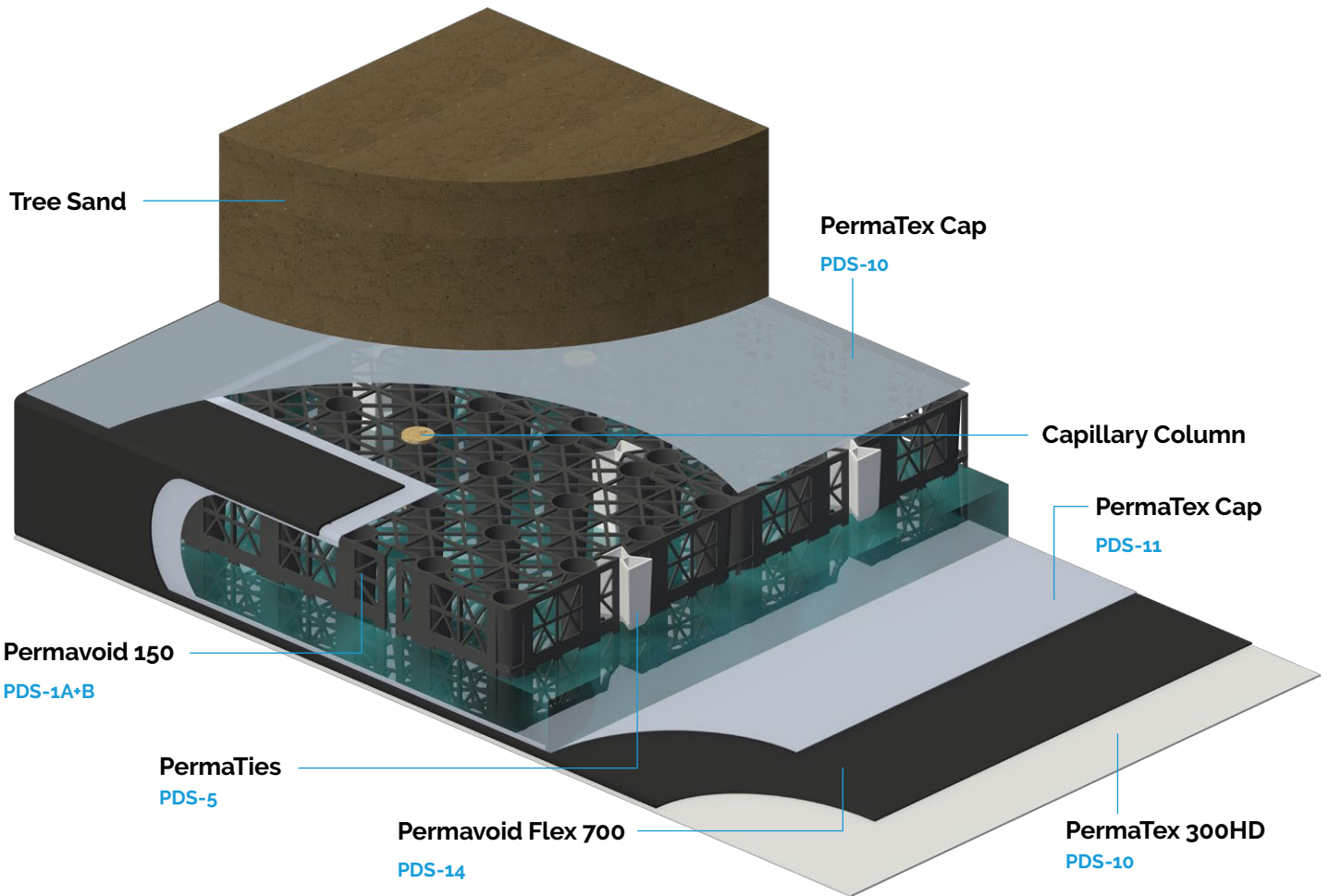


# PERMAVOID CAPILLARY IRRIGATION SYSTEM FOR HEALTHY URBAN TREES



## Mimicking nature

With the Permavoid Capillary Irrigation System an artificial groundwater level is created beneath the rootzone, mimicking groundwater in a natural situation, enabling the growing site to capture, store and reuse stormwater for irrigation. In this arrangement trees prevent stormwater entering the sewer whilst simultaneously enjoying a water reservoir to sustain growth during prolonged dry spells.

The Permavoid Capillary Irrigation System is equipped with specially developed fiber columns that provide capillary transport of water from the Permavoid retention buffer to the rootable soil above. This natural irrigation system uses no energy and maintains a consistent soil moisture content such that the tree experiences a very stable groundwater level, allowing it to thrive in the urban environment.

## Case studies



City Center, Eindhoven



Oude Markt, Weert



De Deel, Emmeloord



De Deel, Emmeloord

### Note:

The Permavoid Capillary Irrigation System for trees has to be used in combination with a suitable soil. This soil is characterized by a narrow bandwidth in grain size distribution, sufficient organic material to provide the tree with nutrients for a longer period of time, enables root growth in the entire volume and facilitates soil gas exchange. These types of soils are referred to as (Amsterdam) Tree Sand or Sand Based Structural Soils. The quality of the applied Tree Sand and correct application are essential and integral requirements of a successful growing site for trees. More details on the soil specifics are available upon request.

Visit [www.permavoid.com](http://www.permavoid.com) to download our latest company brochures and product data sheets (PDS).

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