Technische fiche

TreeParker Side Unit

Suspended pavement - / structural soil cell system

Type: TreeParker Side Unit xxx cm
(xxx = height of the Side Unit)

Material: made of recycled material

Colour: black/anthracite

Dimensions:
600 mm (l) x 200 mm (w) x
400 - 1500 mm (h)

Weight: (400-1500 mm)
5,46 kg - 10,08 kg

TreeParker Side Unit consists of:
2 pc. TreeParker Side Frame
2 pc. TreeParker Post

Storage: cover to protect against UV light

HS code: 39269097

Specifications grey infrastructure

Maximum load capacity
TreeParker Side Unit 40 cm up to 550 KN/m2.
TreeParker Side Unit 150cm up to 420 KN/m2.
Evenly distributed load.

Min. installation depth for axelload 15 tons
* 15 cm: 5 cm aggregate (0-32,5 mm) with concrete pavement (10 cm layer concrete poured at location, e-modulus 20,000 MPa).
* 30 cm aggregate (0-32,5 mm) underneath pavers/asphalt. Aggregate e-modulus >500 MPa.

Utility friendly
TP Units must be able to moved freely around existing utilities. With a connected matrix of units this is not possible. Units/cell is designed and tested as stand alone (not interconnected)

No pavement lifting
Soil settlement and -expanding within the system will not have any effect on the pavement.

Adjustable height
To maximize soil volume or overcome (un)foreseen obstacles the system must be adjusted to every length preferable.

Chemically inert
All materials are chemically inert to natural soil conditions. 100 years guarantee.

TreeParker Side Frame

Material: recycled fibreglass reinforced polypropylene (PP 100 % recyclable)

Colour: black

Weight: 1,93 kg/pc.

Dimensions: 600 mm (l) x 200 mm (w) x 55 mm (h)

TreeParker Post

Material: PVC, 100 % recyclable

Colour: anthracite

Weight: 2,10 kg/m[1]

Dimensions: Ø105 mm,
length 400 mm up to 1500 mm

Tubes with inside reinforcement to withstand horizontal and vertical impacts

Specifications green infrastructure

Root friendly
Smallest penetrable opening Ø 33 cm. The smallest opening must be bigger than the maximum root thickness, to prevent strangleling of the roots.

Maximum soil volume
Ca. 95 % of the system can be filled with soil (1-1,5 MPa penetration resistance) and still leaving a 5 cm air layer on top. Uncompacted soil will settle up to 25%.

Water- and air capacity
Within the TreeParker system the soil acts as one continuous natural soil volume, this will enhance root growth because of good water and air penetration and diffusion.

High quality soil
The system is fillable with all kind of soils. No concession needed on soil quality. The system does not impose restrictions on the soil mix.

Specifications blue infrastructure

Stormwater retention and infiltration
TreeParker system are BMP stormwater management systems. No open walls, uncompacted soil or open posts which drains the water down directly and too fast. In TreeParker the soil and tree can take maximum advantage of the incoming water, rain water and/or irrigation water.

Water quality
The soil within the TreeParker system acts as an natural filter (Phytoremediation). Polluted stormwater is filtered and only clean water will recharge groundwater. Water is not drained down directly through the system but will be first filtered.