



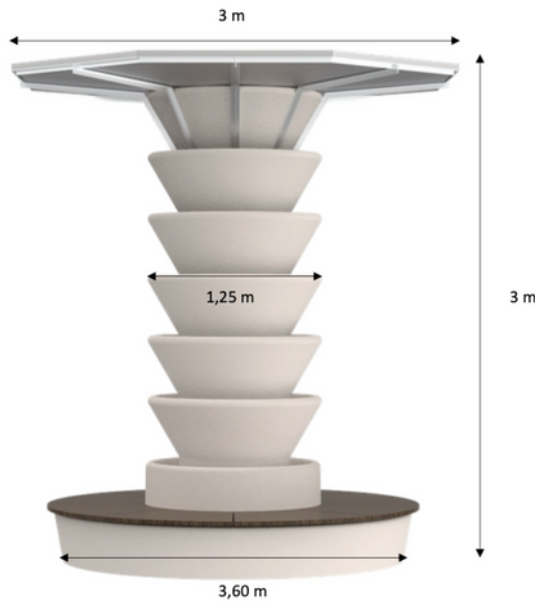
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# PRODUCT FACTSHEET URBAN TREE

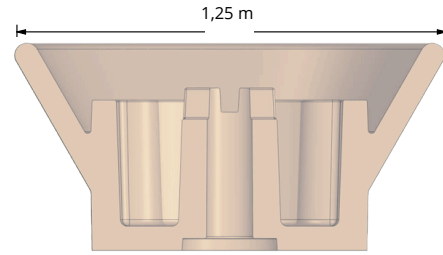
PROJECT NO. 2






# urban tree

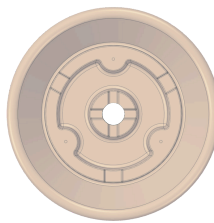
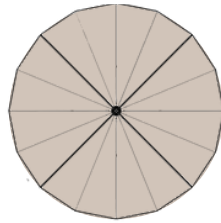
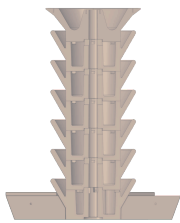
part of a green movement



## Dimensions



-  6.500 weight of the construction in kg
-  8.000 total weight of product in kg
-  1.000 liter water reservoir
-  21 m<sup>2</sup> of greening
-  2 weeks production time



Urban Tree is a flexible, self-watering solution that can be placed directly on top of existing pavement and does not require digging like normal city trees.

We fused two ideas – a desire for more nature in our cities and our passion for lowering the material footprint.

This innovative street furniture combines a 1000L water reservoir with a lush plant cover, featuring stackable geopolymer







concrete modules made from industrial waste by-products.

The modules are designed with a wick system, enabling plants to access and utilize the stored rainwater.


A bench made of waste wood and solar-powered lighting can be added, to help create safe and social gathering spots in the city. The top can be made in corten steel or recycled plastic.

Urban Tree can be customized in height, bottom type, color, and plant selection.

## Environmental Impacts

-  Social gathering point
-  Biodiversity
-  Greening
-  Cooling effect (UHI effect)
-  Providing shade
-  Biofactor score 0.7 on the 7 m<sup>2</sup> space it occupies

## Color and materiel

	03 Mocha		09 Chestnut
	05 Coco		83 Terracotta
	07 Chocolate		89 Auburn

The construction is made of geopolymer concrete, also known as alkali-activated material (AAM). This is an alternative type of concrete where the proportion of cement clinker is reduced by substituting it with other active binder materials, in this case, industrial waste products such as ash from household waste incineration, biomass, and sludge, as well as mineral wool from demolition projects, etc. – without compromising the strength, durability, or other beneficial properties of the concrete elements. The color depends on the percentage of slush ash.

Geopolymer concrete is known for its environmental benefits, with a significant reduction in CO<sub>2</sub> emissions (up to 50%) compared to traditional OPC-based concrete production, while also recycling industrial waste products instead of them ending up in landfills and replacing virgin raw materials.