

SUSTAINABLE

THE WORLD'S FIRST FLOATING TIMBER TOWER

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1 January 2020

Dutch architectural studio [Waterstudio](#) designed a 40 metre tall floating tower made of CLT for the city of Rotterdam (NL).

CLT, which stands for Cross Laminated Timber, is a sustainable up and coming material in architecture. **Wood** is a renewable resource, and by turning it into CLT, even wood that is less suitable for construction, like softwoods, can be turned into buildings. This way, lighter constructions can be built

than with for instance steel or concrete, making it especially suitable for floating architecture.

The design of the tower is compared to a sheet of paper that is pushed together so that a tower appears. The white sheet is floating above the water on a transparent layer with vegetation. It is held in place by a wooden structure of V-shaped columns. The tower is pushed up asymmetric from the deck, which creates an opening in the



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building consists of three **concrete** barges, The tower itself will be constructed in three parts on a wharf and assembled on site.

The main function of the tower is to accommodate offices. However, the ground floor forms a mix-use public layer, just above the water

The building runs on solar power and reuses heat produced by the structure itself or extracted from the surrounding water.

Architect: Koen Olthuis -

Waterstudio.NL

Concept developer: VORM

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