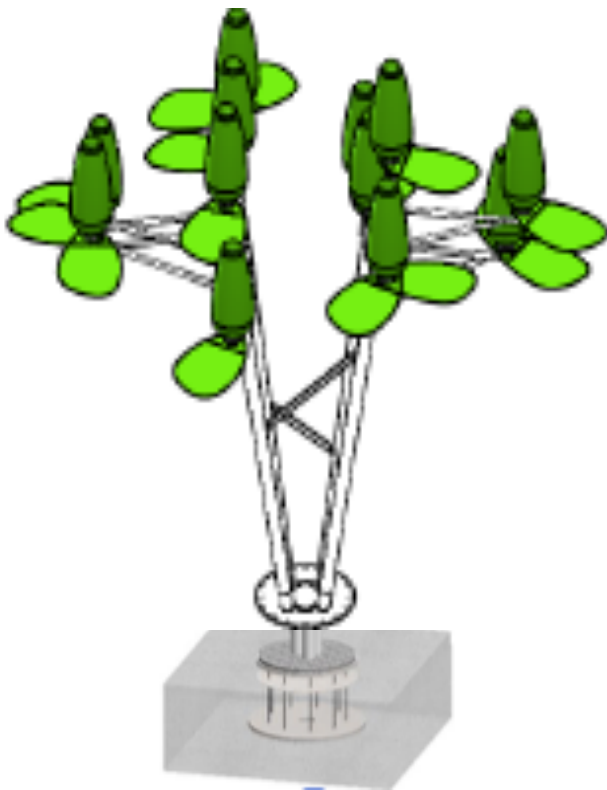


WindBush Installation methodology



WindBush® anchorage

The Bush is fixed in the ground by means of an anchoring basket cast in the concrete block.



The civil works below are the responsibility of the customer:

- Earthworks
- Concrete for massive
- Formwork
- Reinforcement
- Installation of the anchor basket
- Installation of the sleeves
- Earthing at the bottom of the excavation (25mm² earth cable to be attached to the anchor basket)

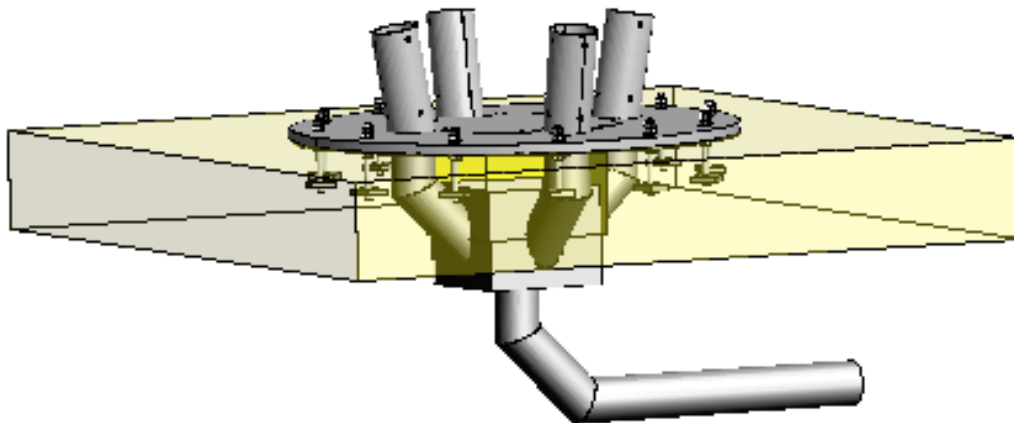
Visual of the implantation block with its anchor basket

The anchor basket is provided by NewWorldWind. It can be delivered to the Customer's site at the start of the civil works.

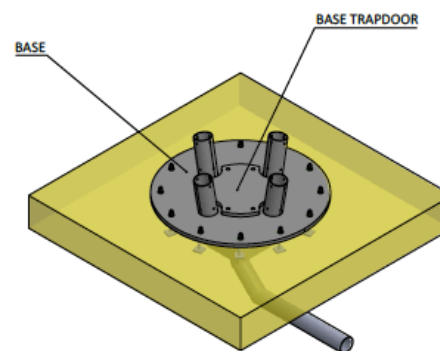
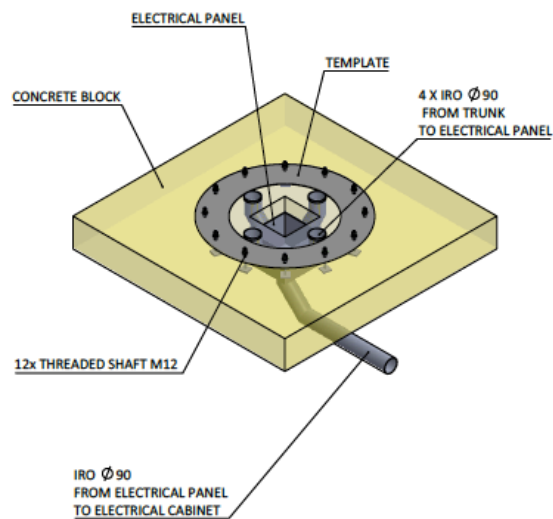
The plan of the concrete block is provided by NewWorldwind on the most frequent soil assumptions in urban or peri-urban areas. This is a block diagram that the Customer is responsible for having confirmed by the company in charge of the concrete block according to the quality of the soil where the Wind Bush will be planted.

Any possible modification of the principle diagram will remain the responsibility of the Customer.


The WINDBUSH requires a small foundation 1.5 m x 1.5 m by 0.3 m deep with a hole in its center to receive the anchor plate, Aeroleaf cables and solar petals grouped together in a junction box, as well as the sleeves going to the electricity cabinet (10 m maximum).




BASE AND BASE TRAPDOOR HIDDEN




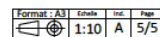
A	11/12/2020	RVI	Création du plan		
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Ancrage - Bush



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Planning

The installation site takes place in two distinct phases:

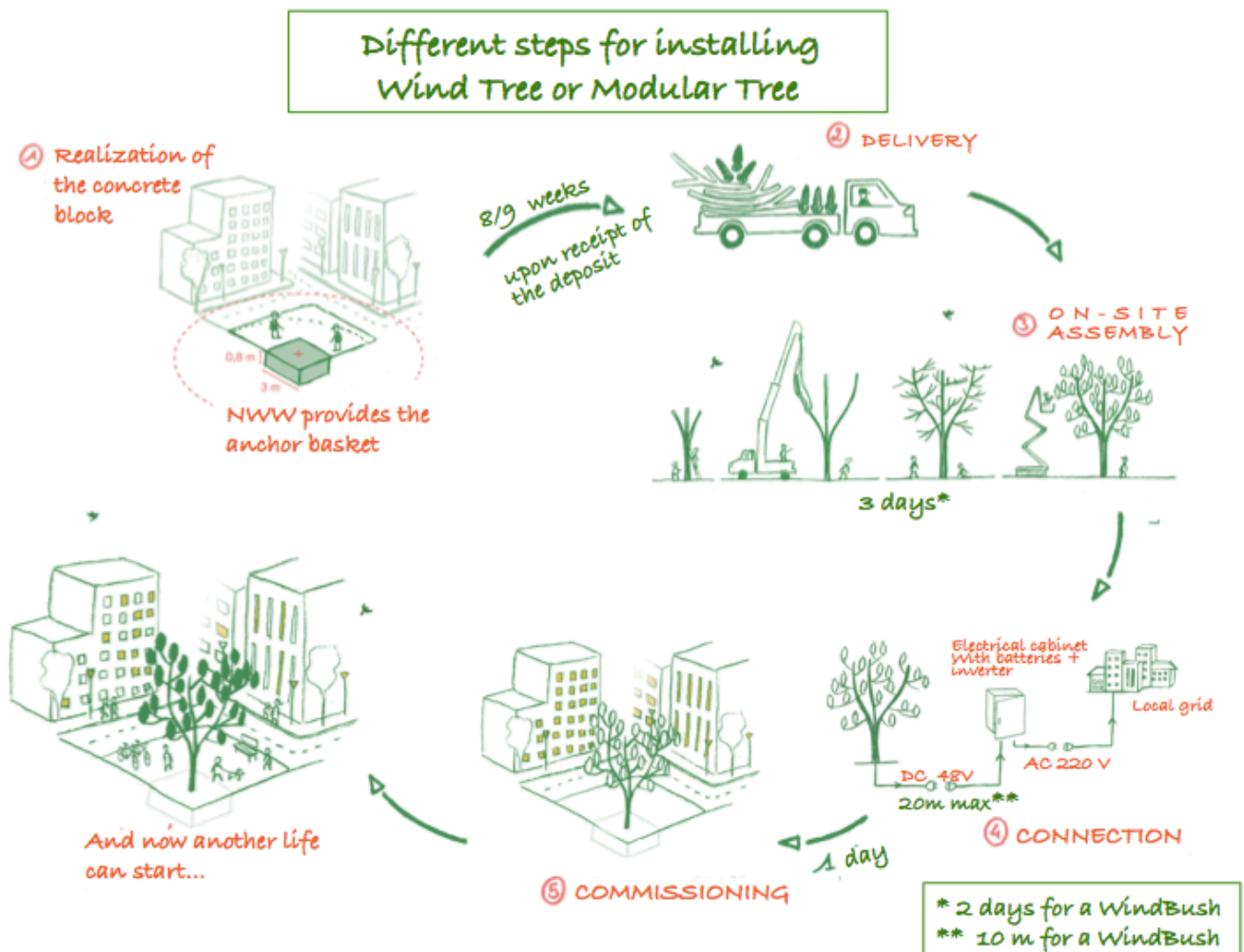
First, the anchor block is to be made 3 to 4 weeks before the installation of the Tree to allow the concrete to dry sufficiently (to do with the company in charge of the construction of the block).

Secondly, the installation and connection of the Wind Tree® include the following operations :

- Assembly of the WindTree on site
- Installation of the NewWorldwind electrical cabinet
- Pulling the cable between the Wind Tree and the electrical cabinet
- Electrical connection of the Tree to the Customer's General Low Voltage Panel (under the responsibility of the Customer within 24 hours of installation)
- Commissioning (under the responsibility of the Customer within 24 hours of installation)

Installation and connection work is scheduled over a period of 2 to 3 days depending on the model.

Commissioning must be made by the Customer at the end of the worksite under the supervision of NewWorldwind staff who will ensure that it runs smoothly in order to guarantee the proper functioning of the Aeroleafs.



Required material

Two lifting devices are needed to plant the WindBush, a 25 T crane on the first day and a nacelle for the duration of the work (2 days).

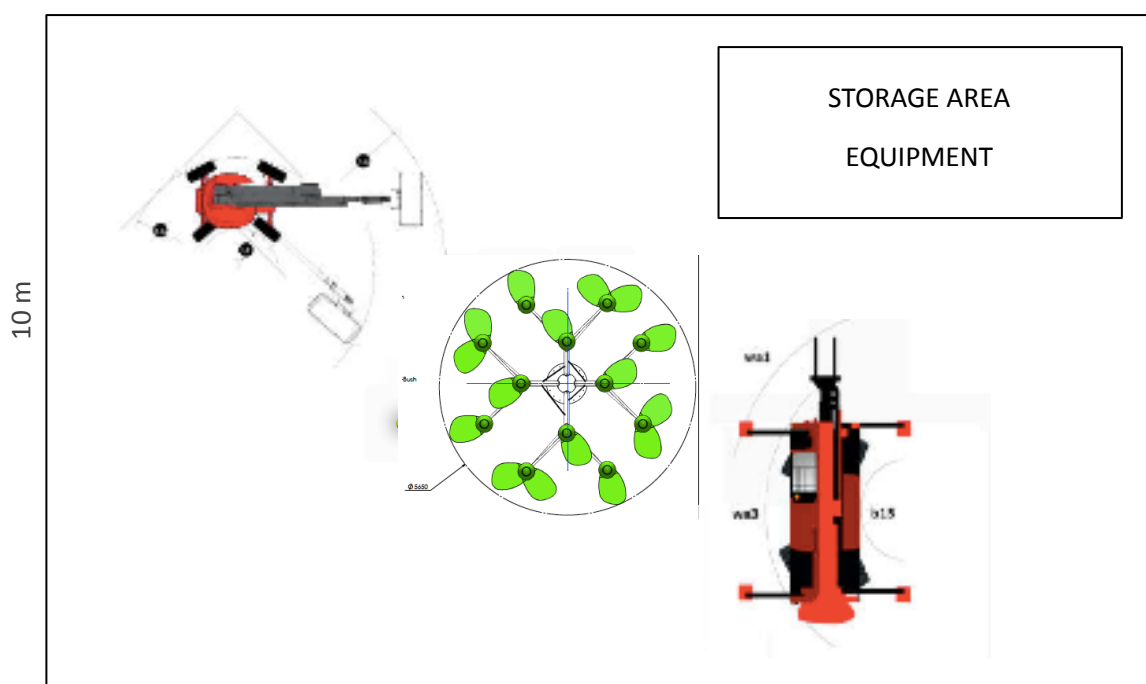


We recommend using a 4x4 rotary telehandler like this one, necessarily equipped with a hoisting winch with a minimum lift height of 17 meters max.



... as well as a 16 meters high articulated boom lift, 4x4, and capable of carrying 2 people.

15 m



Peripheral marking of the site

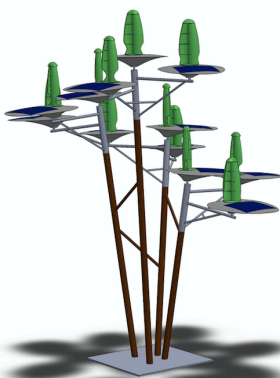
Electrical connection

The Wind Tree is a decentralized electrical installation operating on the principle of self-consumption. The energy of the tree is intended to be consumed directly where it is produced.

The Tree is connected to the busbar of the Customer's TGBT, via the electrical cabinet, supplied and installed by NewWorldWind (location to be defined by the customer at 20 m max from the base of the Tree, 10 m for the Bush)

The electrical cabinet consists of an inverter, a storage battery and the equipment necessary for the electrical protection of the installation, in accordance with the European directives in force.

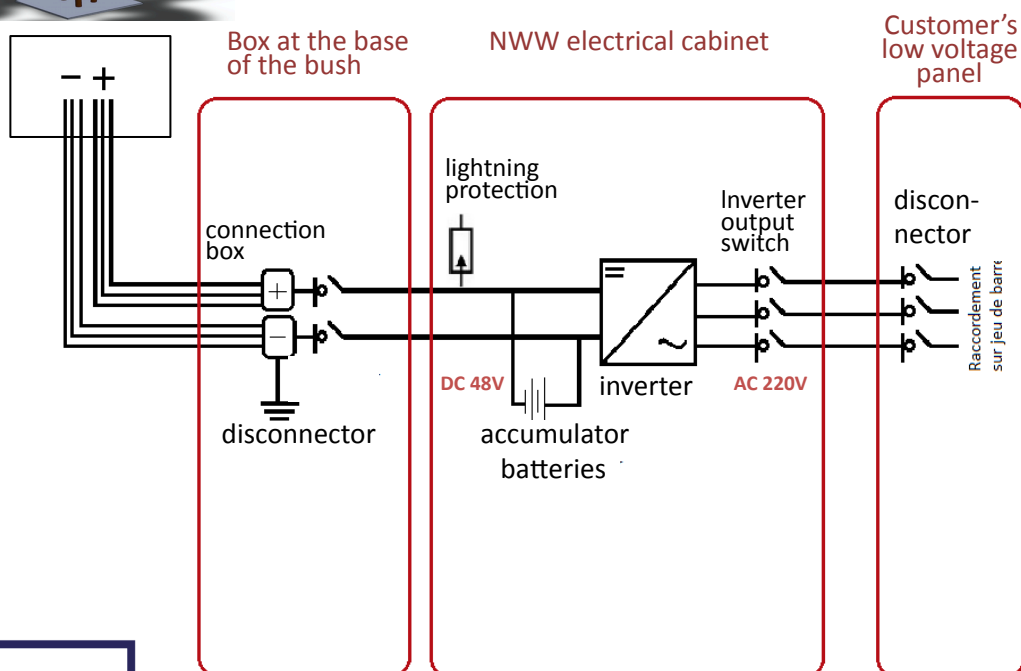
Wind Bush
Supply and installation
New World Wind



NewWorldWind's offer (supply and installation) includes the connection of the electrical cabinet and the pulling of the low voltage cable (48 V).

The sleeves for passing the cables are supplied and installed by the Customer when making the anchor block.

The connection of the NewWorldWind electrical cabinet to the general low voltage switchboard is the responsibility of the customer



Principle of electrical installation