

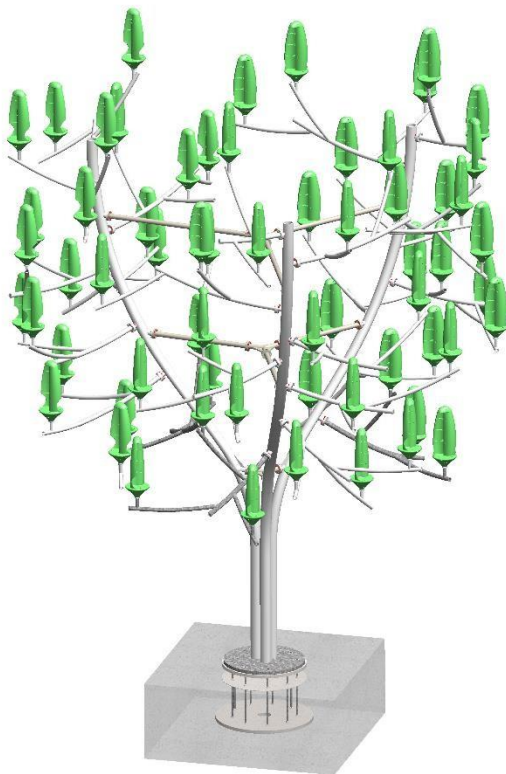


Windtree Installation methodology



WindTree® anchorage

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



Visual of the implantation block with its anchor basket

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)

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

The principle of 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 Tree will be planted.

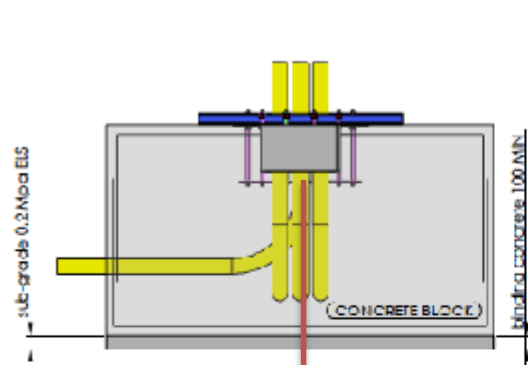
Any possible modification of the principle diagram will remain the responsibility of the Customer.

NB : The number of pipes for electrical wires must be in accordance with the number of trunks (3 - 4 or 5).

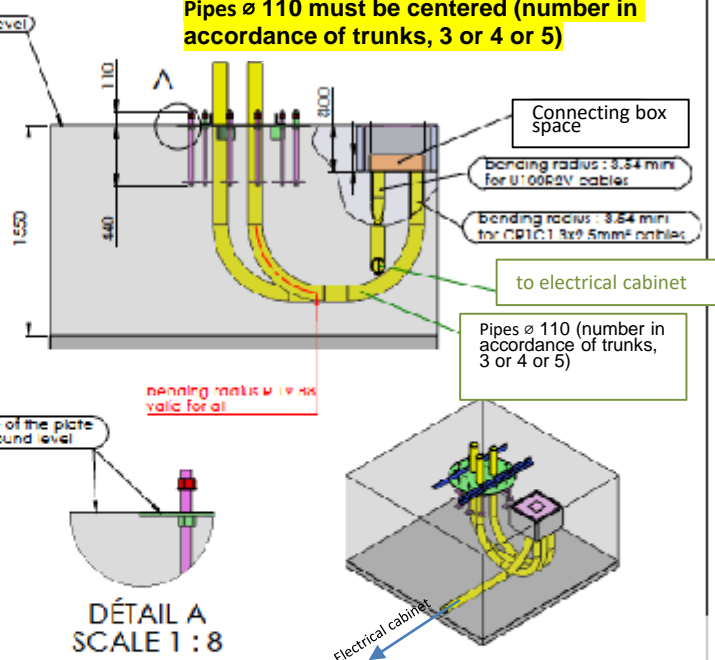
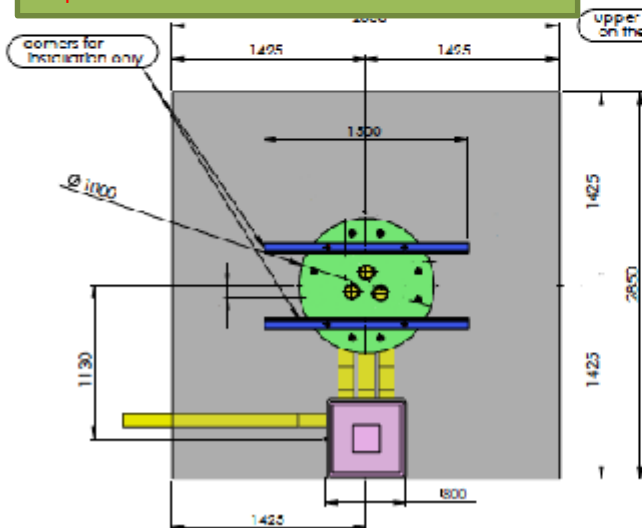
Concrete platform for electrical cabinet must be achieved by the customer (120 x 60 centimeter).

PRINCIPAL OF 3 TRUNKS TREE

Pipes \varnothing 110 must be centered (number in accordance of trunks, 3 or 4 or 5)

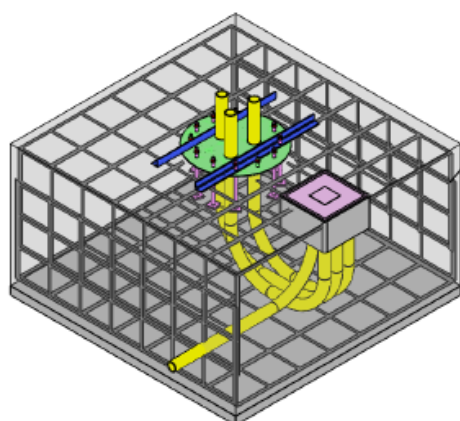
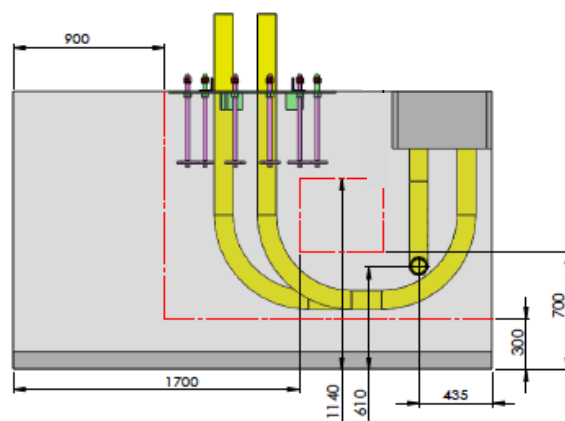
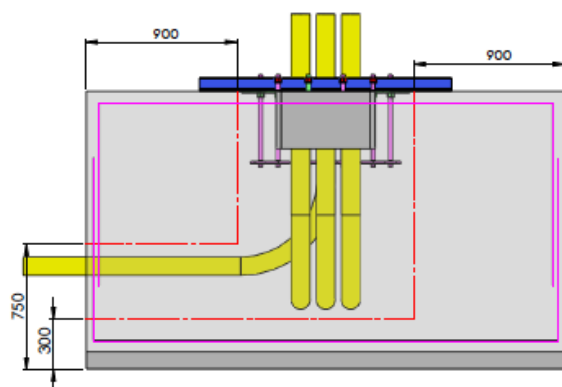


Important: install a bar for earth connection



OR 17/12/2019	Mise en plan	MM			
Rev	Date	Modifications	Dessiné par	Vérifié par	Approuvé par
STATUT	<input type="checkbox"/> En cours	<input type="checkbox"/> Pour information	<input type="checkbox"/> Pour approvisionnement	<input type="checkbox"/> Pour validation	<input type="checkbox"/> B.P.E. <input type="checkbox"/> T.Q.C.
N° Affaire R.B.	Client	N°Cmde client			
New World Wind Ancrage arbre à vent MMGS (millimètre, gramme, seconde)					
INTERVENANT	REFERENCE		Rev		
be4innov	N° plan:				
new world wind	N° plan: VS-ANCRAGE ARBRE A VENT-MMGS				
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AREAS TO AVOID DURING THE METAL FRAME IMPLEMENTATION IN THE CONCRETE



metal frame in the concrete
(only the external sections are presented,
to repeat in all the concrete block)
---->in purple on the view above

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N° Affaire RIB:	Client	N°Cmde client			
New World Wind Ancrage arbre à vent IPS (inch, pounds, seconds)					
INTERVENANT	REFERENCE		Rev		
be4innov	N° plan:				
new world wind	N° plan: VS-ANCRAGE ARBRE A VENT-MMGS				
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Planning

The installation site takes place in two distinct phases:

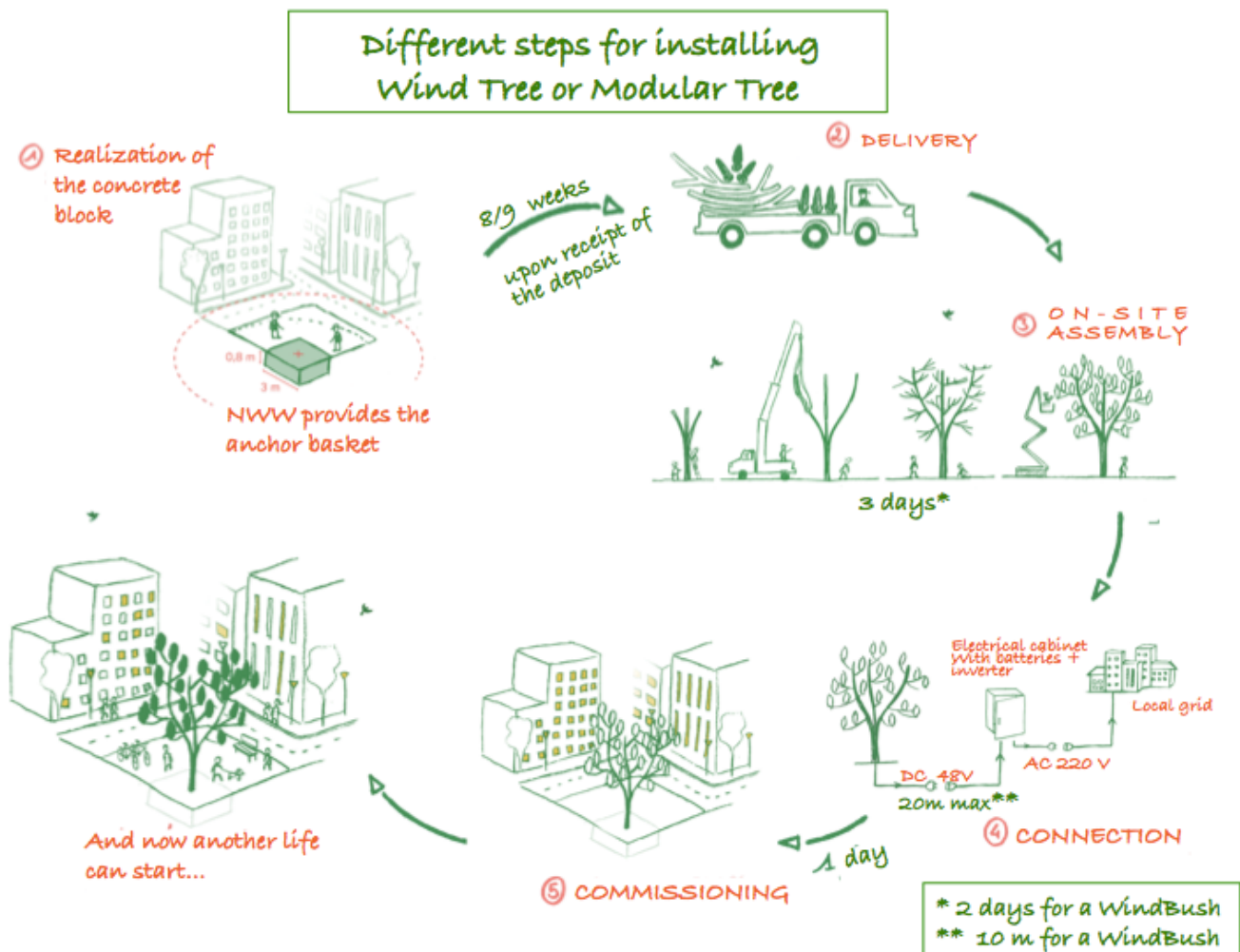
First, the anchor block is to be made 3 to 4 weeks before the installation of the Tree to allow the concrete to dry sufficiently (to do with the company in charge of the construction of the block).

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

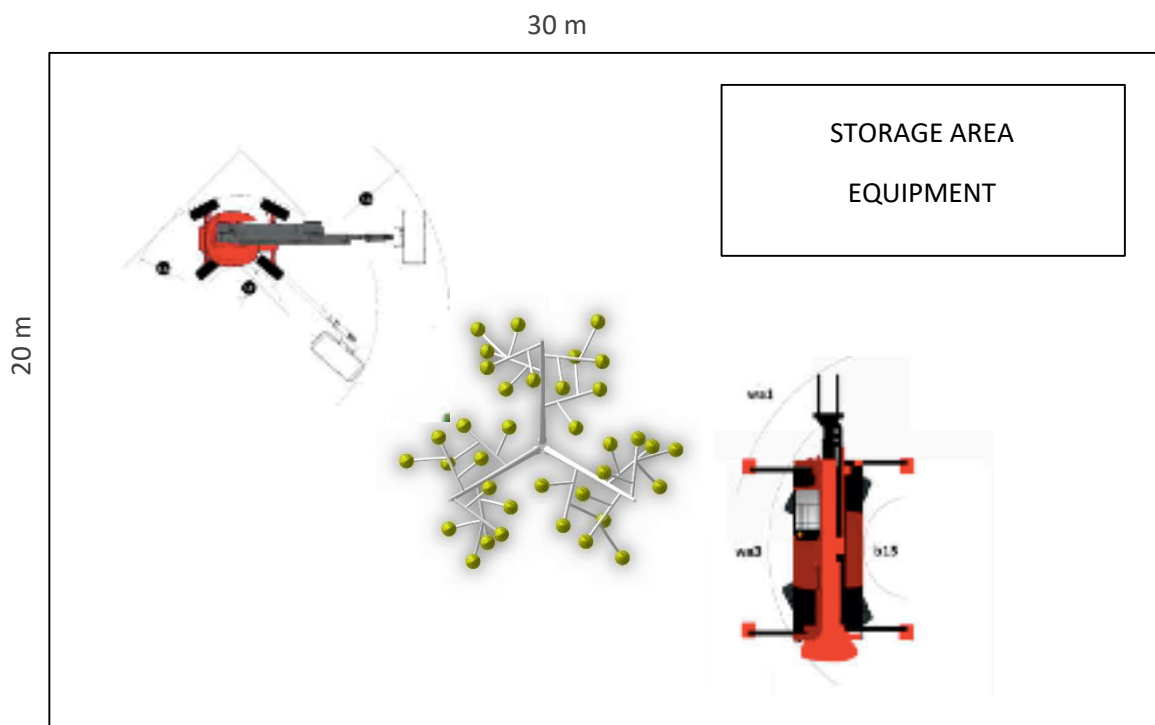
DTwo lifting devices are needed to plant the Trees, a 25 T crane on the first day and a nacelle for the duration of the work (2 days for the Bush, 3 days for the Trees).



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



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



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.

