

PRECAST CONCRETE FOUNDATION FOR WIND TOWER

This is a concrete foundation totally prefabricated for wind tower, subject to an international patent. It is composed of single elements divided into primary and secondary, which vary in number according to the loads and geometry of the towers.

After the assembly on site of all the elements, the monolithicity is made with the post-tension cables.

A part of the cables is positioned in the slab joins the secondary elements to the primary.

A part of the cables is positioned in the central ring joins the primary elements together.

It is the axial force of the post-tension cables that holds all the elements together

All prefabricated elements are produced in the factory, they are made in metal formwork to ensure compliance with tolerances.



image during the assembly phase of the primary elements



image during the assembly phase of the secondary elements



Postensionig phases



image during the assembly phase of the steel tower

Manufacturer of prefabricated works: ARTEPREF SL – GERARDO DE LA CALLE GROUP - SPAIN

Structural designer of concrete works : dott.ing. Stefano Knisel - ITALY