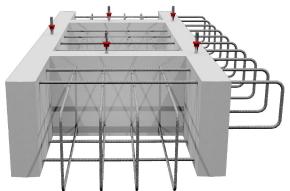


Precast Foundation for concrete SLAB

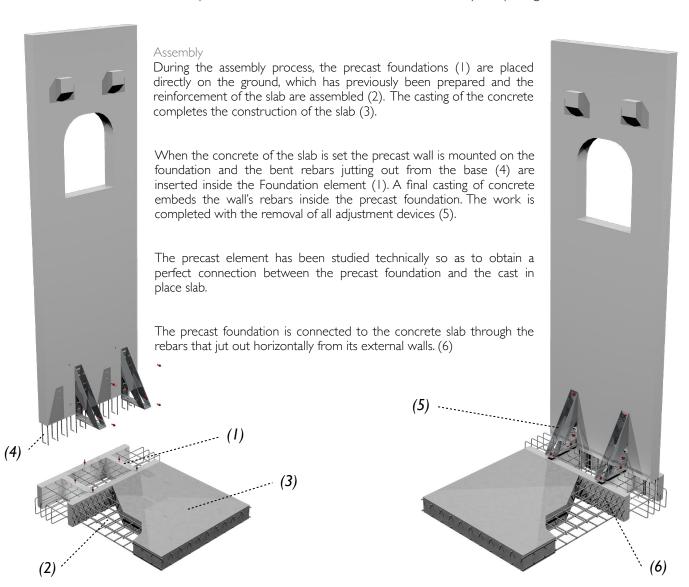
Precast foundation

The precast foundation is a reinforced concrete element made up of a tied rebar beam cage incorporated within a semi-precast concrete element which acts as formwork. The geometric dimensions and the steel area are established through static calculations elaborated according to the distributed of loads N, Mx, Tx, My, Ty and the pt pressure admissible on the terrain. The horizontal rebars, jet out from the external precast walls, are necessary to join the precast foundation to the cast in place slab.



Dimensions

The Precast Foundation" can be produced in different forms and dimensions to satisfy every design and structural need.





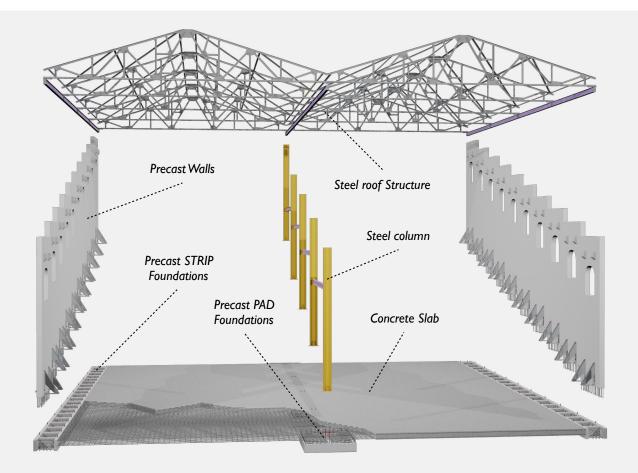
In order to optimise the construction, the cast in place slab and the Precast Foundations will be designed with two different thicknesses.

For the assembly and alignment of the precast wall, adjusting devices are used. These allow an easy, fast and precise installation.

During the production phase of the Precast Foundation, four anchor bolts are left within the central concrete walls, while the precast wall is equipped with eight threaded couplers. The adjusting devices are fixed to the anchor bolts using nuts and to the precast wall using bolts. This system not only allows the precast wall to be aligned with pinpoint precision, but also eliminates any use of braces during the assembly phase.

The four adjusting devices will be dimensioned in relation to the weight and other strains to which the precast wall is subject and are used merely for assembling the elements.

When the concrete inside of the precast foundation is set, all the adjusting devices are removed.





Concreting

The work is completed with a final casting of concrete into the Precast Foundations, thereby connecting walls and foundations.

Conclusions

The use of the Precast strip
Foundation eliminates all those
inconveniences that crop up
during the construction of
foundation slab using traditional
method, aiming to halve the costs involved
in constructing a foundation structure, greater jobsite safety for workers and a turnaround speed without
precedence.

Unlike traditional systems used in the construction of foundations, the use of our product does not require the additional presence of skilled workers and auxiliary tools (braces, formwork, boards, nails, hammers, pincers, shears, etc.).

ADVANTAGES COMPARED TO THE CURRENT SYSTEM

- 1) 50% savings on the time and cost necessary for the assembly of the precast walls.
- 2) Savings on the purchase or rent the braces.
- 3) Savings on the placement, fixing and disassembly of the braces.
- 4) Pinpoint precision during the assembly of the precast walls.
- 5) 100% Savings on the carpentry works.
- 6) 50% saving on skilled and qualified workers.
- 7) Better fire resistance
- 8) No clutter either inside or outside the construction, given by the use of braces.
- 9) Very safe worksite.

