

## “THE CONSTRUCTION LOGISTIC”

Once all the panels that make up the building are designed to justify the “Industrialization Project”, it is necessary to design “construction’s logistic”, in other words “the assembly line”:

1. How the pieces have to be manufactured and using which moulds.
2. How the pieces have to be assembled and in which order.
3. Which pieces have to be manufactured every day.
4. Which pieces have to be transported to the site every day?
5. Which pieces have to be assembled every day.

For all this we need to know the following factors that determine the definition of the assembly line:

1. The place of manufacture (on site or in a warehouse)
2. The required labour.
3. The mechanical means required for the manufacturing (type and number of cranes and concrete mixers), transport (type of trucks) and at assembly (type and number of assembly cranes).
4. The required execution period of the building work (linked to the aforementioned points 2 and 3).

This second part of the “BSCP System” is the most important one because it’s the part that makes the building work similar to the regular industrial manufacturing of any product: the “assembly line”.

We must not forget that the whole “Industrialization Project” is based on the definition of the “logical order” in which all the building pieces must be assembled. Based on the initial decisions (where the pieces are going to be manufactured, which cranes are required, etc.), the required moulds and tools to manufacture and lift all the pieces are designed.

This document includes, at least, the following information:

1. Mould/s or table/s: The design of the different types of moulds necessary to manufacture all the pieces.
  1. Tool to lift the vertical pieces: This tool allows lifting all the pieces, vertically, by two points.
  2. Tool to lift the horizontal pieces: This tool allows lifting all the pieces, horizontally, by four points. Since most of the building works usually have at least one staircase, are also included the stairs’ moulds.