



FAES NEW PLANT IN DERIO

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1. INTRODUCTION



With an investment of around 200 million euros and a job creation capacity of around 200 people, Faes Farma's new manufacturing plant in Derio (Bizkaia) plans to manufacture 117 million drugs a year, including tablets, capsules, creams, suppositories and syrups. On average, 336 pallets, or 24 tonnes of medicines per day, will leave the new plant each day.

2. OVERVIEW

The plant will have 30,000 square metres of floor space in addition to the area for access, parking and logistics. The area of ISO 8 rated rooms is approximately 23,200 m².

The new plant is divided into three main blocks, a laboratory building, a production building and the logistics building.

In the so-called social building, there are, among other areas, the laboratory, quality control and microbiology areas.

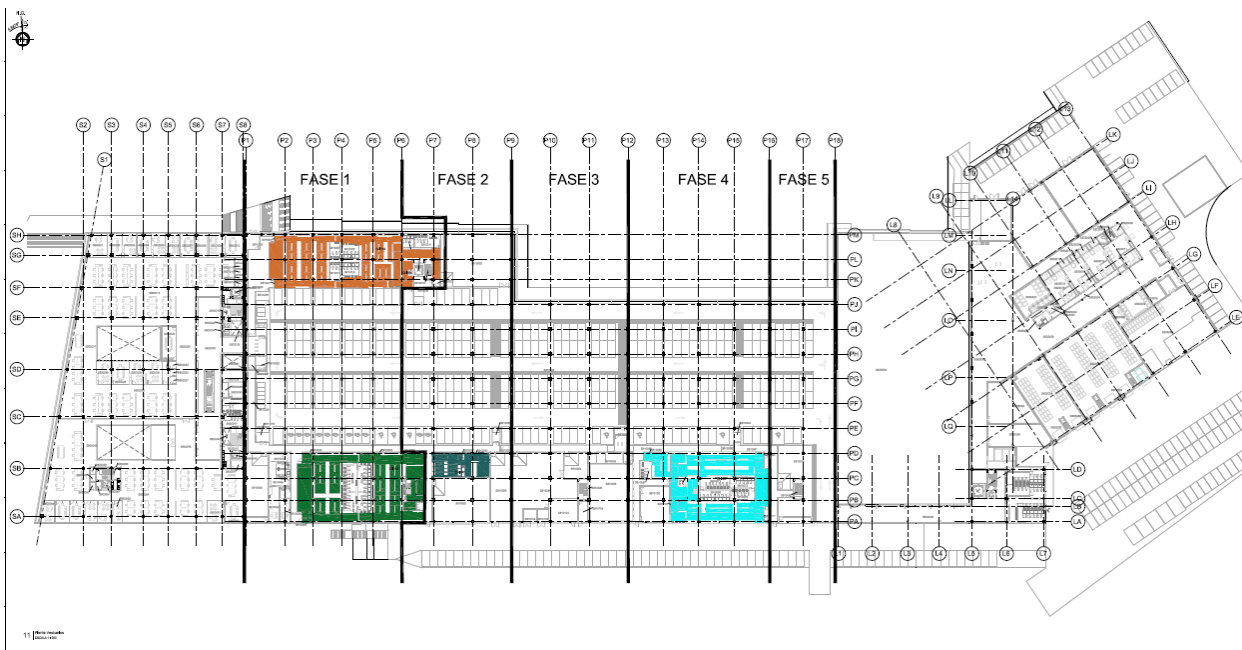


The central core will concentrate the manufacturing areas, with the access changing rooms on the ground floor, the first floor for the production of solid pharmaceuticals and the first floor for the production of semi-solid and liquid pharmaceuticals.

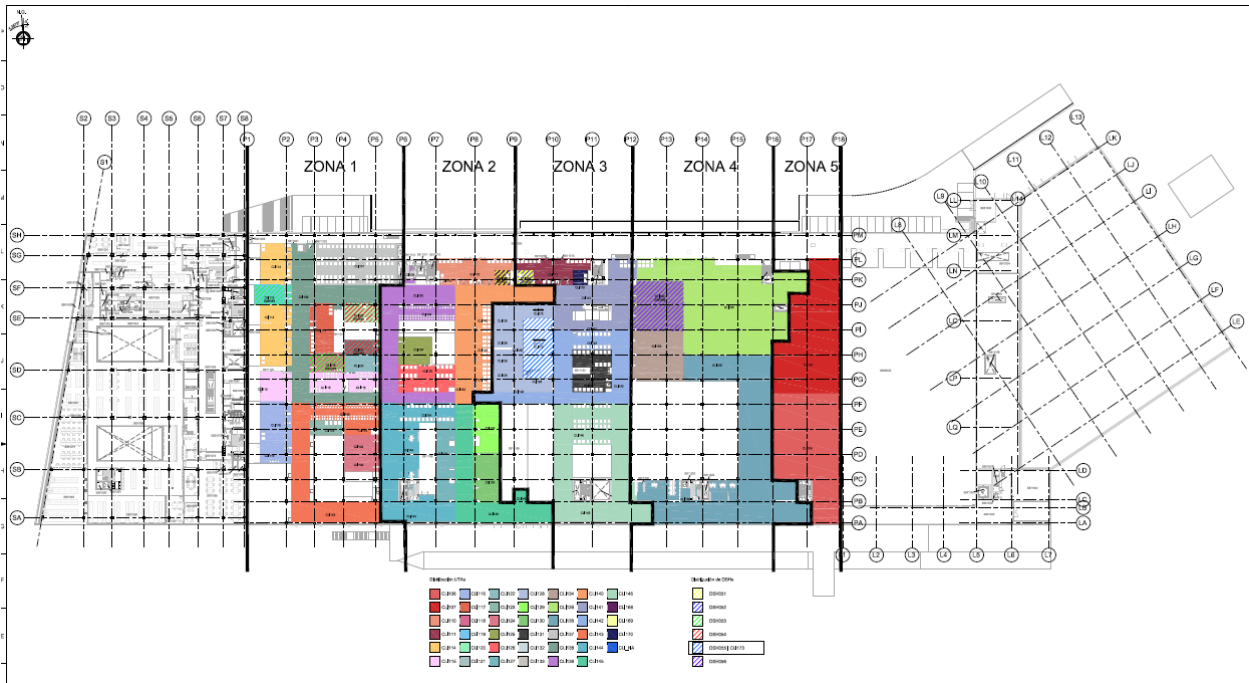
A technical area has been set up above the solids plant, where the general distribution of ducts, zone control panels, dust collectors and other installations are located. This is repeated on the liquids floor, and a technical area is also set up over the entire surface.

Above the liquids area is the roof, where a Tramex area has been set up over the entire surface and where all the air handling units for the solids and liquids production rooms have been placed.

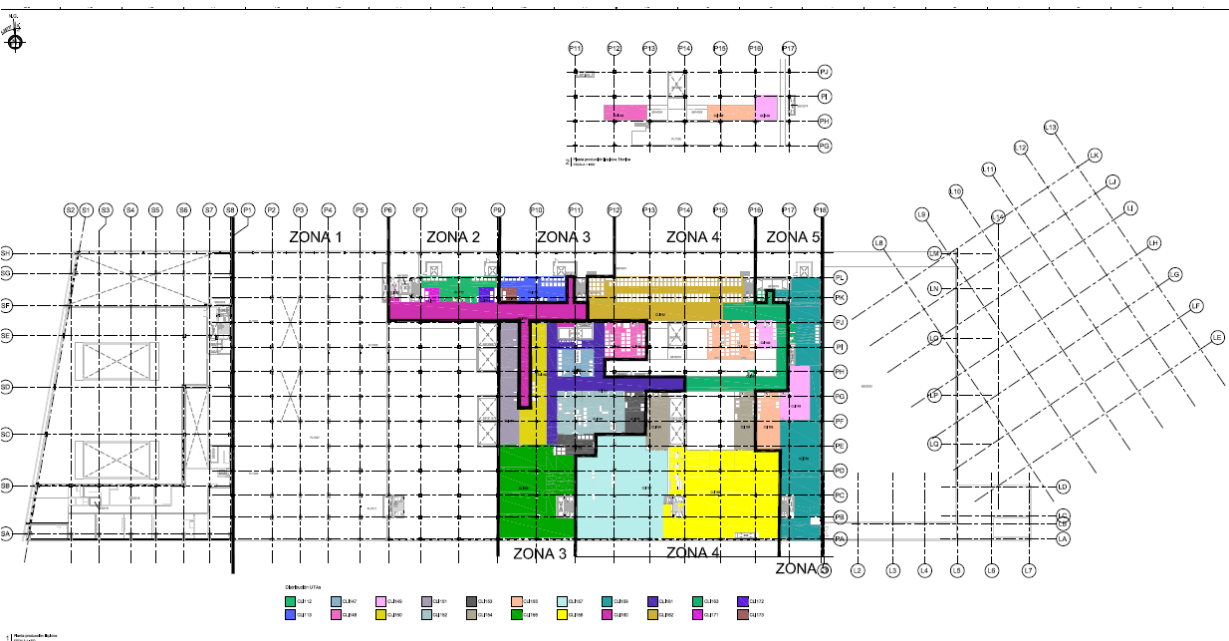
Zero level designated for garage and changing rooms.



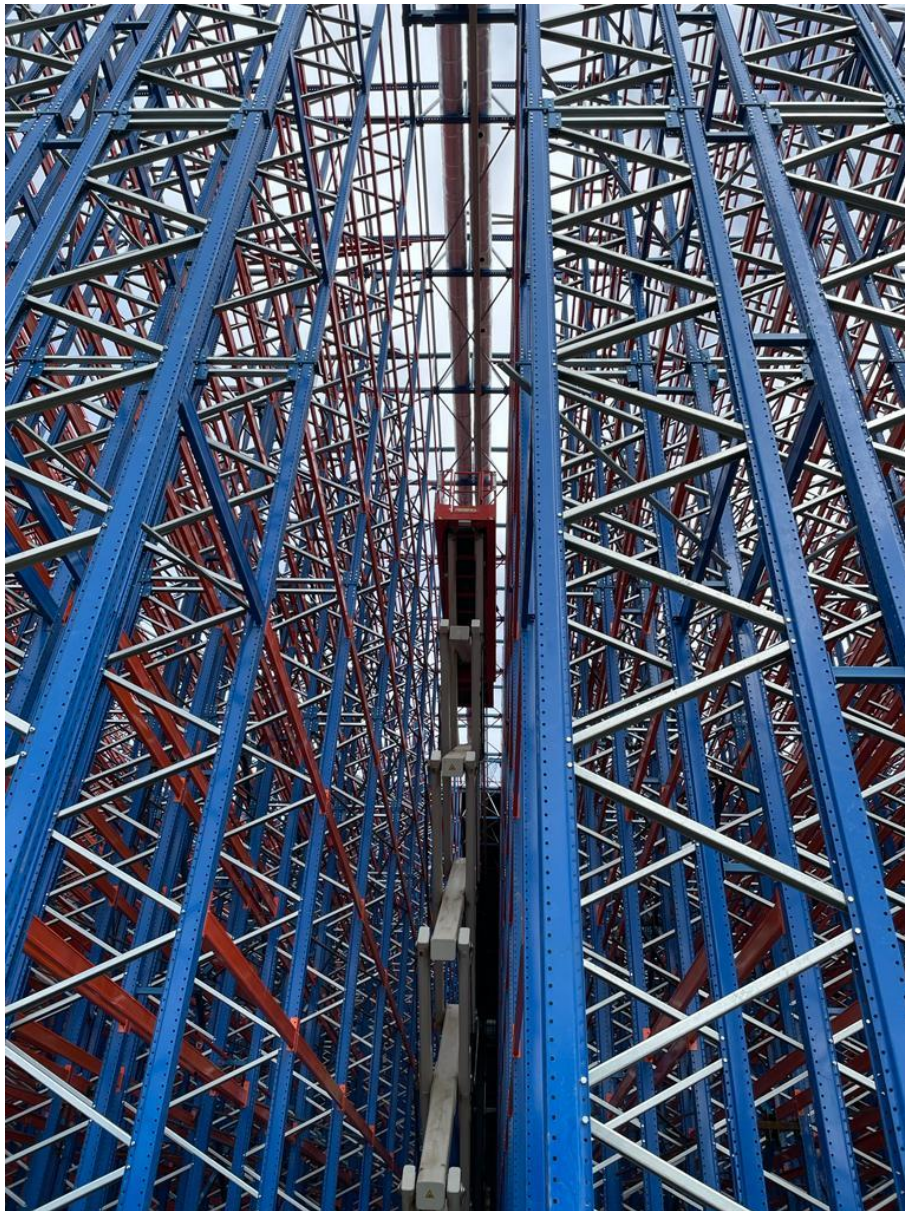
Solids Manufacturing Area



Liquids manufacturing area

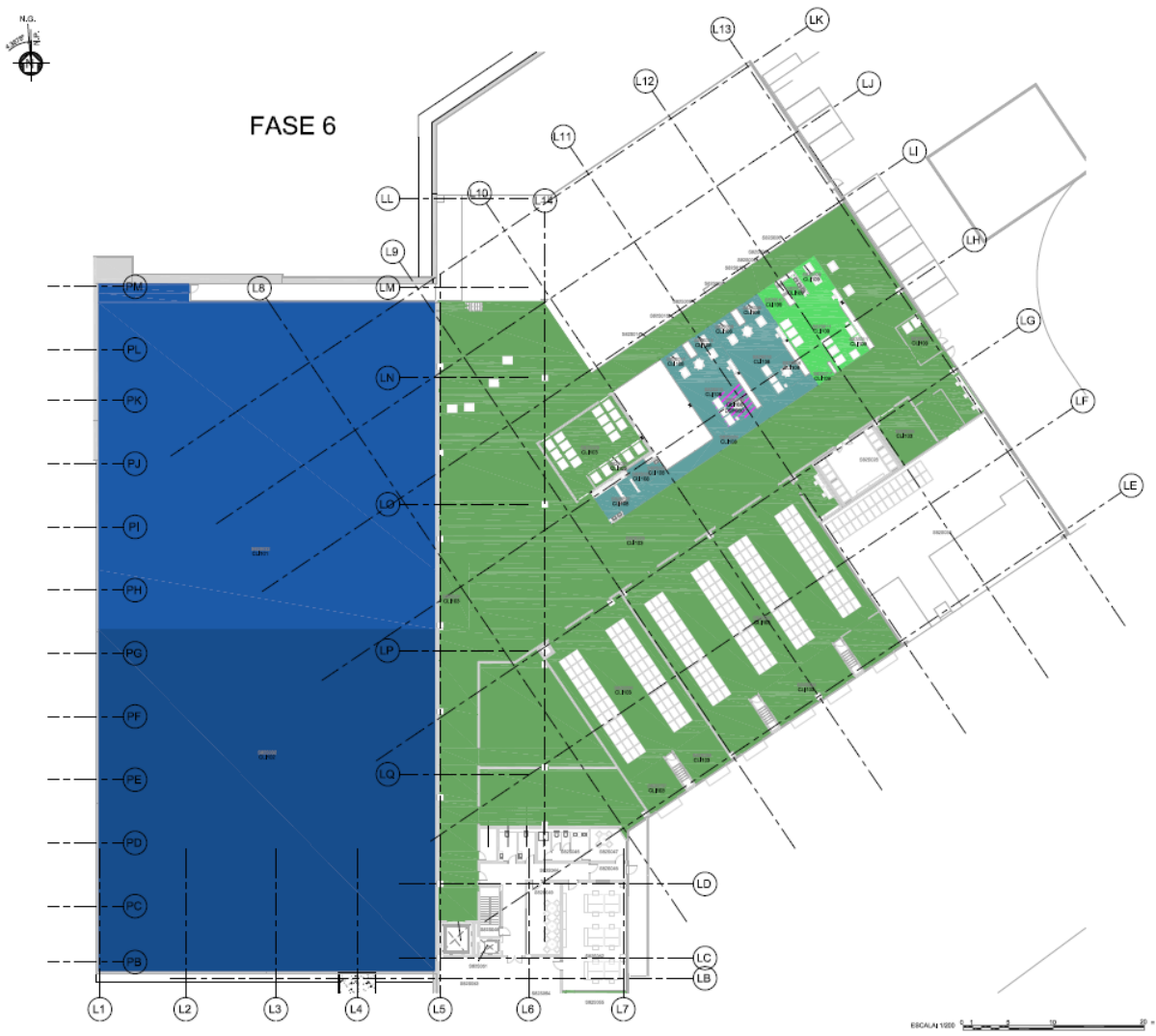


The logistics area integrates, among other areas, a robotised warehouse in which Valtria has completely changed the initially planned configuration, considering the distribution of air through the upper part, installing ducts at a height of 20 metres and integrating long-range nozzles in the 5 aisle lines. The return air is installed at the bottom, thus achieving a better distribution of air over the entire surface of the automated warehouse.



Within the logistics area, a sampling zone has also been created, equipped with laminar flow cabinets. Additionally, there is a pallet drying area, with the pallets being

manufactured and supplied by LITEK, as well as access points to the loading docks, among other facilities.



3. BATCHES CARRIED OUT BY VALTRIA

Valtria has actively participated in this project, contributing its expertise from the commercial phase to the final installation. They have reviewed the project carried out by the D. F. and suggested the necessary changes to ensure the functionality of the facilities.

The project awarded to Valtria in December 2021 for an amount of €10,866,000 includes the following main lots:

- Air conditioners - 80 pcs
- Air ducts - 75,000 m² of ducts installed, not counting the extraction lines, most of which are in circular ductwork.
- Control - More than 3,000 control points integrated in the different panels installed in the technical areas and on the roof. 125 km of hose installed for our control installations alone. The installation was planned using Siemens CPUs and although it was initially planned to use Siemens ET200 distributed peripherals, due to market difficulties and time constraints, it was finally decided to install Phoenix Contact peripherals.
- Drying equipment for specific rooms such as soft capsule manufacturing, granulation areas, etc.
- Diffusion - Approximately 1,200 units between diffusion boxes and terminal units with H14 final filter in the room.
- Laminar flow cabinets for weighing and sampling.
- 16 dust collectors and their distribution of high vacuum piping.
- Climatic chambers
- ...

The financial closure estimate exceeds €12,500,000, approximately €2,000,000 more than initially contracted. This is mainly due to the change controls proposed by Valtria for functional modifications to the initial project.

All of this was executed within the same timeframe foreseen in the contract.

4. TEAMWORK

It is quite a challenge for a young delegation such as that of the Basque Country, a project of this magnitude that closes when we were still taking our first steps. It was a challenge for us, with the main structure already in place, but with the team yet to be formed. Many hours of work and full of illusion we started to walk until we got to where we are at this moment, about to make something that at the beginning seemed impossible.

Obviously, none of this would have been possible without the commitment and involvement of the entire team that has worked on this project and, of course, without the collaboration of the rest of Valtria's branches, all working like a Swiss watch, starting with the sales team, studies department, engineering department, BIM (Building Information Modelling) department, our colleagues from PRL (Occupational Risk Prevention) ensuring our safety and that of the contractors, purchasing department, administration and marketing, production managers from all the branches and the group's management, all aligned with a single aim, to help and collaborate.

Staff who have travelled from other delegations to work side by side with our team in Bilbao, site managers, commissioning teams from Madrid and Barcelona, to all of you, A MILLION THANKS for your involvement and for the great personal effort you have made.

5. PHOTOS OF THE INSTALLATION

- Solids area





- Roof





- Control panels and differential pressure probe panels in the room



