



Land-based Aquaculture Experimental Center in Vélez-Málaga

Description

The preliminary project aims to create a Land-based Aquaculture Experimental Center, which will consist of two independent and detached buildings: an Experimentation Facility and an Office Building, located on a plot resulting from the project called 'Regeneration of Mezquitilla Beach,' which includes the environmental recovery of the area through reforestation with species suitable for the area's characteristics and the establishment of a service area to support the beach, visually integrating with it.

Regarding the Experimentation Plant, it consists of an isolated rectangular construction with a total constructed area of 3,036 m². The intended use is as an Experimentation Center, where the necessary experiments will be conducted to develop land-based aquaculture for species currently cultivated in sea cages. Regarding the aesthetic aspect, it is a sober volume in which, in response to the functional needs of the planned activity inside, no formal quality is sacrificed in the facades. On one hand, it is planned to use a reflective finishing material on the East facade (to allow reflection of the natural surroundings where it is located); and on the other hand, on the North, South, and West facades, prefabricated panels of sustainable concrete with greenish texture and pigments will be used, revealing abstract forms with plant motifs. In this way, and always pursuing the objective of minimizing the impact of the building's implementation within this natural context, we achieve: on one hand, to reflect it on the facades where it exists, and on the other hand, to evoke it on the more urban facades where it has less presence.

On the other hand, the Office Building is conceived as an isolated 'sustainable container', distributed over two above-ground floors, with a total constructed area of 521.72 m², where its characteristic use will be the development of all the administrative functions necessary for the proper operation of the Experimentation Center. Bioclimatic design strategies have been taken into account, pursuing the concept of 'nearly zero-energy building', advocating for sustainable construction, addressing energy aspects, reducing environmental impact, and carefully ensuring the continuity of insulation on the exterior of the entire building envelope. The 'container' is designed as another element within the discourse of the environmental recovery project for the area. The use of ecological materials (cork insulation) is proposed, and there is a commitment to using materials generated in the existing Waste Recycling Plant in the municipality as a protective layer for the roof and filling for the perimeter drainage trenches.

Project

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Promoter:

Vélez-Málaga local government

Location

Vélez-Málaga, Málaga

End date of Project

June, 2020

Total constructed area

3,557.72 m².

Developed functions

- Draft Aquaculture Center
- Basic Project Administrative Building
- Execution Project Administrative Building
- Infrastructure study for land-based aquaculture development
- Study of potential species
- Study of cultivation processes
- Study of business model
- Estimated valuation of the necessary investment

Project











