

FRP PROFILES FOR THE GREENHOUSE'S DECK

CLIENT	UNIVERSITY OF LAS PALMAS DE GRAN CANARIA (GOVERN OF CANARY ISLANDS)
LOCATION	MUELLE DE TALIARTE, TELDE, GRAN CANARIA
USE	NEW STRUCTURE FOR THE GREENHOUSE'S DECK, BUILDING OF THE BANCO ESPAÑOL DE ALGAS (SPANISH BANK OF ALGAE)
PRODUCT	FRP STRUCTURAL PROFILES



OBJECTIVE

Part of the University of Las Palmas de Gran Canaria, the Spanish Bank of Algae's tasks are related to study and cultivation development of different kind of marine seaweed. For its studies, the Bank needed a multi-purpose compound with broad diaphanous internal spaces.

The structure had to be highly resistant both to the internal and external environment because of its exposure to high salinity and wind loads. The compound had as well to resist to the daily wide temperature and humidity variations caused by the proximity to the coast and the environment generated by its own interior basins.

SOLUTIONS

In order to meet the client's request, the technical office of our partner MVA designed a deck extended to the whole operational courtyard. The deck could be closed peripherally in a modular way. The structure was made by taking advantage of M.M.'s FRP profiles wide range. On one side, it was possible to ensure an interior space with a minimum quantity of supports, while on the other to create gable roofs through polycarbonate panels, leaning as well on purlins our made of our FRP profiles.

Our FRP profiles' workability, both with regard to ease of installation and the geometry, made possible to create an effective design: an open structure that could be closed on command on the perimeter according to the client's needs.

The final result is a building that is very resistant to corrosion, fatigue and to the high wind loads, but also light, modular, simple and easy to work. The advantages provided by M.M.'s FRP profiles result for the client in a huge reduction of maintenance costs and maximal use flexibility, while for our partner MVA's in a rapid assembly and in minimal transportation and workforce's costs.

