

# FLOATING BUILDING ENGINEERING WITH LARANTIDE AUTONOMIE

Larantide autonomie designs and builds autonomous floating and amphibious buildings with low energy consumption. Our buildings create floating living space for everyone who wants to work or live near the water. The design of the building can be optimized to host offices, harbour facilities (bathroom, laundry, rest area), restaurant or housing units.

Larantide autonomie is an engineering company specialised in solutions critical for floating buildings: energy, waste management, security and environmental impact. Our consultants have gained an extensive experience in energy, construction and oceanographic sectors.

The initial design of floating buildings was optimized for environmentally protected area and follow a strict framework of

environmental quality. Further development was done to optimize the resistance to agitated water as well as important changes in water level including situations where the building is amphibious.

Each project is entirely modelised using energy, structural, bioclimatic, ergonomic and economical simulations. In this approach, the design is optimised to fit the best compromise between comfort, functionalities, environmental impact and budget in order to create the highest quality living and working area. Our buildings integrate bioclimatic architecture parts and take advantage of the natural environment to favour renewable energies. Our platform and buildings are designed to resist harsh weather conditions including strong winds and ice pressure during the winter. They integrate traditional,

sustainable, and recyclable materials.

The level of autonomy is defined for each project according to selected objectives with the client. While a connection to the public networks is favoured to reject the waste waters, if this solution is impossible, a waste water micro station treatment is installed to guarantee the autonomy. Larantide autonomie also designs a functional module which provides a modular and interchangeable unit integrating the control, security and comfort functions of the building functions. Each project is designed to meet the security requirements of floating buildings and is certified by an independent control organisation before opening. Maintenance contracts are proposed to follow the structure and technical installations.



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