

Alpine Aqualand (aka Queenstown Aquatic Centre)

LHTDESIGN LTD
FOR QUEENSTOWN LAKES DISTRICT COUNCIL

LHTDesign were the lead Consultants in project coordinating and controlling the multi-discipline design team for this state of the art Aquatic Centre that was added to the existing Events Centre to provide Queenstown with a comprehensive sports and events hub.

Environmentally sustainable design principles guided the design team throughout with special emphasis on energy efficiency. For an indoor pool this has by far the largest influence on the consequent use of fossil fuels and emission of CO₂.

Innovative heat recovery systems have resulted in an extremely energy-efficient facility while also allowing 100% fresh air and therefore no recycling of pool hall chemicals.

The raking columns and walls and large span segmental shapes required by the architecture influenced the structure of precast concrete cantilever columns and steel lattice truss beams. Durability of the steel rafters in the corrosive pool environment has been achieved by a multi-discipline solution using the acoustic ceiling to form an air delivery plenum that also carries services and provides a benign environment for the steel.

The mix of recreation facilities, design, choice of materials, colours and quality of work has resulted in a highly successful and valuable addition to the benefit of the Queenstown community.



Judging & Copyright Statement

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