



# Noble House

Great Barrier Island, New Zealand

This unique residential property is located on rugged Great Barrier, a remote island off the east coast of New Zealand's North Island. The property - the architect's own residence - stretches conventional building methods through the integration of less-conventional materials into a stunning and functional residential design.

This is a unique application of a tension membrane as part of a residential structure, with the membrane acting as a permanent roof over the living area of the house.

The architect had very conclusive ideas about what he wanted, and looked to Structurflex to help him realise this vision. Structurflex worked in close consultation with the architect to develop the structural and membrane design which was to become a key feature of the overall design of the home.

The project was not without its challenges, and heavy design input was required by both parties to ensure that the transition between the membrane structure and the conventional building structure was faultless.

The membrane design enables the house to be bathed in natural diffused light while offering the family all-weather protection from the island's changing climate which can range from scorching summer sun, to howling winds, driving rain and winter chill.

Despite the remote location, transport costs were kept to a minimum due to the low transport volume and bulk of the individual components that make up a structure.

