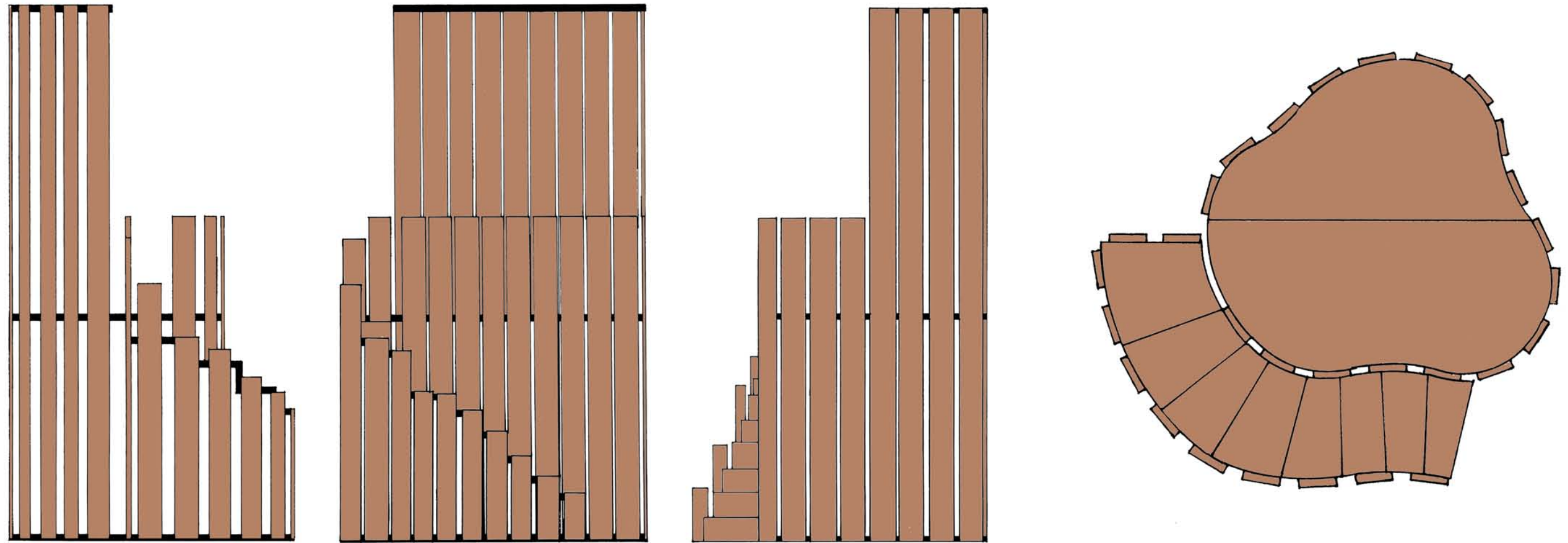


The project was created to design a structure to help lifeguards perform their duties. The objective for our design was to provide maximum vision for the lifeguards, to have protection from the sun and wind, and ensure the life-saving tower fits its environment with the use of reusable materials.

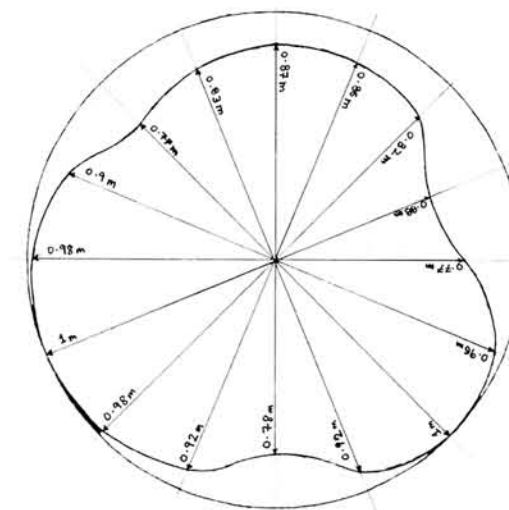
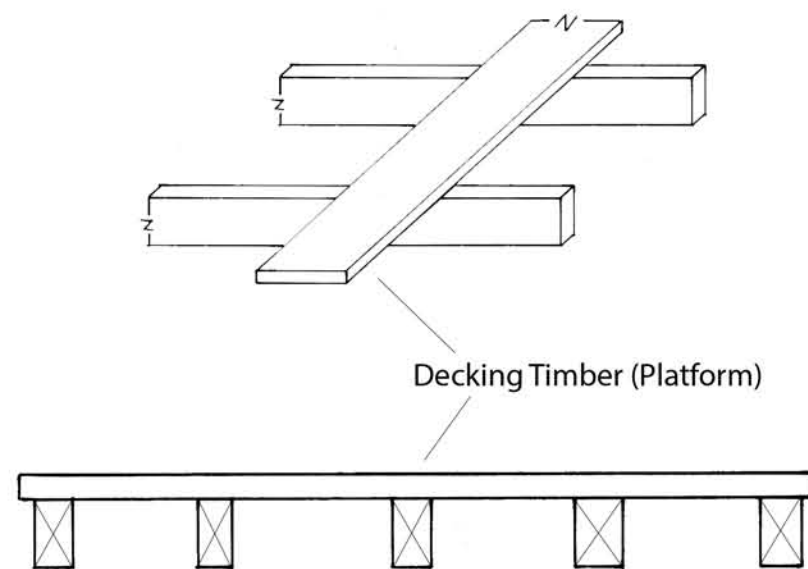
The outside planks are attached to the base and the joists beneath the platform. The long planks of wood, when fitted to the base and platform, form the outside shell of the tower for protection from the wind and the sun. These planks also provide enough strength to bear the load of the platform. The platform is clad with decking timber. The stairway starts directly at the front of the tower, rotating around to the opposite side of the platform, effectively twisting around the tower. The roof is screwed in at the tops of the long planks, covering half the platform space.

This tower could be built under Exemption (k) of Schedule 1 to the Building Act 2004. It can be assumed that this is a level 1 building in relation to The Australian/New Zealand Standard, AS/NZS 1170: Structural Design Actions - Part 0: 2002 General Principles and so the tower could gain a territorial authority exemption.





The main material used in the life saving tower is pine timber. An estimated quote from Placemakers, Wairau Park gives this material as \$10.99 per metre. An estimate of 31 4.4m long planks of 200x50mm (dressed and treated) FT8 H3.2 PGKD timber, equates to \$1486.76 for exterior planks, the base and supporting joists. This excludes the cost of the 25x140mm timber that will be used for the viewing platform.



The shape of the viewing platform has been derived from the shape of a circle with a radius of 1 metre.