

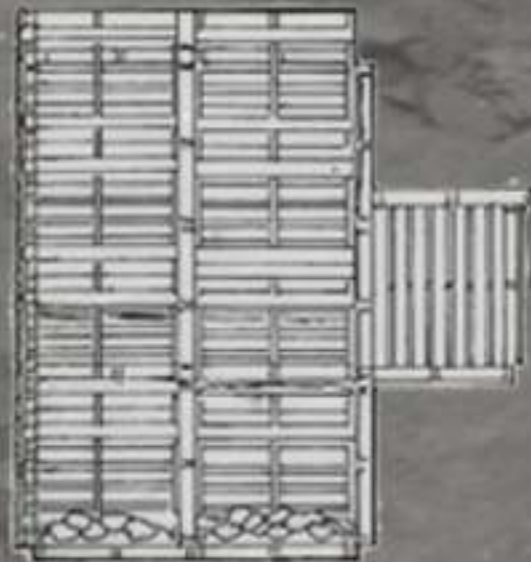
Surf Lifesaving Tower

2013-34

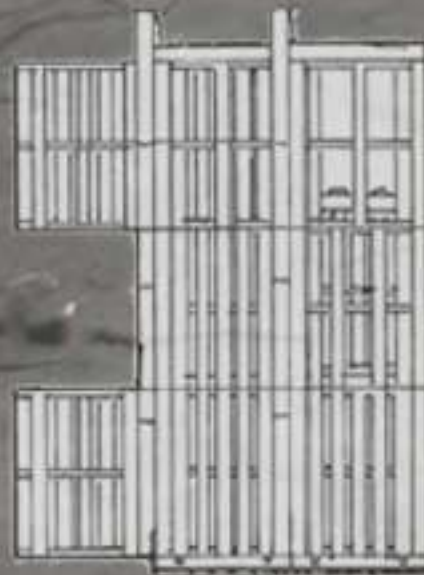




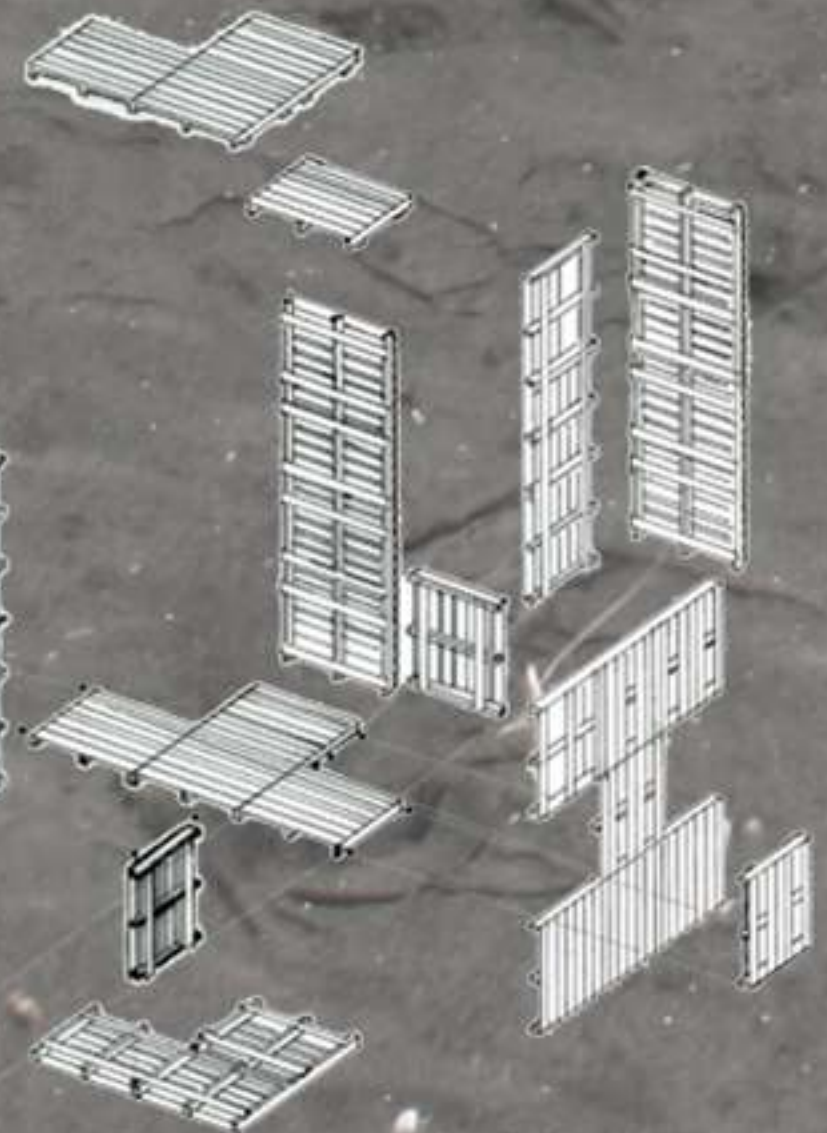
Pallets Configurations



Pallet filling method



Exploded view



Material	Quantity	Cost (\$NZD)
Wooden pallet	36	FREE
Galvanised bolts	44	201.96
Angled brackets	49	768.81
Plate brackets	36	525.96
T brackets	2	51.62
Strip brace	20	88.89
Galvanised nails	Small box	33.98
Investement		1671.22

T Bracket



Plate



Angled Bracket



Gravinized Bolt



Strip Brace



By using the modules of a standard NZ pallet (1200mmX1000mmX140mm) you could simply join the modules with bolts, screws, plates, angled brackets, T brackets, nails, and strip braces. Structural uplift is minimised by placing sand bags on the sub-platform compartment. Lateral instability would be resolved by the use of strip braces across selected module-combinations. The cantilevered storage area is secured as the module combination adheres to the 2/3 structural principle, plus the assistance of angled brackets. Essentially, the structure is strong due to the combination of turns and low centre of gravity. It is easily buildable due to the simple (and re-usable) joinery and its simple modular methodology.