

Medium Term Solution Proposals – Swim Zone Matamata

When considering medium term solution options a range of structures have been explored and tabled with the Working Group. This includes companies such as NZ Temporary Structures, Structurflex, Sprung Structures NZ, Arizon Building Systems, Duol Air Domes.

Based on a review of these options, the Working Group have engaged with New Zealand Temporary Structures to obtain more information along with broad engagement with Structurflex as a comparable option.

Both options have been priced on a 30m x 15m enclosed structure – 450 square meter structure

New Zealand Temporary Structures

Structure

- Thermo Roof Solution – Suitable for Aquatic Environment
- Walls include a mixture of materials across 5m Bay Panel including:
 - Iso Fixed Wall Panels (Hard Insulated Panels) – with a possibility to add vents to allow for natural ventilation
 - Glazing Panels – Allowing for natural sunlight
 - Double Door Sections – 3 or 3 bays depending on access requirements
 - Vinyl Fabric – An option across certain sections to allow natural airflow in summer (can be removed)
- The product has a warranty of 7 years for anything fabric and 10 years for its aluminium & steel.

Install

- Installation into the foundation includes 6 Dynabolts per column with required concrete depth of 200-300mm
- PS1 and PS4 included, however onsite installed will be dictated by site by the engineers with engineers required to apply for building consent (Beca have advised that they can assist with this)
- Solutions would include leg extension (stackers) on lower end of the pool to ensure modular solution is level.

Timelines

- Could be installed in June 2022

Cost

- [Final Quotation](#) & Further Information
- **\$450,000** (which could be lowered depending on final material agreed upon through final design). The \$450,00 includes a mixture of glass and ISO Fixed Wall Panels (i.e maximum price for structure)
- Cost includes standard install (subject to advice from engineers), Install Machinery, Equipment required on site, engineers report – PS1, Freight of Containers & Customs Charges

Structurflex

Structure

- Tensile Enclosure (Steel framed PVC clad structure) - Each Portal is in 9m Runs
- PVC fabric solutions for walls (side curtains) or alternative fixed panel solutions to lower costs
- 8-year warranty of product. *There is potential for a 20-year warrant on a premium product however that has not be included in the below costings*

Timelines

- Minimum 6 months lead time (October/November 2022)

Cost

- \$900 per square meter for fully enclosed structure - \$405,000
- \$400 per square meter for open-air structure (roof only) - \$180,000
- \$75-150 per square meter for foundation and civil works at would be required for this option - \$34,000 - \$68,000 (average of \$51,000)
- Total cost for comparable solution with New Zealand Temporary Structure - **\$461,000**

Photos – NZ Temporary Solutions

Solution – below is a mixture of Vinyl and Iso Panel options





Solution – below is a mixture of Vinyl, Glazing and Double Doors



Leg Stacker – Installation methos



Specifications

Eave height:
3.00m

Span width:
10.00m

Ridge height:
4.63m

Bay distance:
5.00m

Roof pitch:
18°

Number of gable uprights:
1 Gable upright (per end)

Longest component:
5.40m

Minimum length:
10.00m

Maximum length:
Unlimited in 5.00m increments

Max allowed wind speed:
102 km/h (0.50kN/m²)

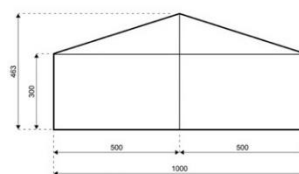
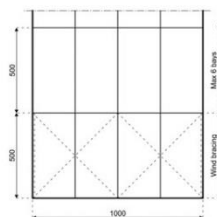
Main profile size:
225/101/3.5/5.5mm (4-channel)

Eave connection type:
Twin Plate

Aluminium type:
European - Hard Pressed Extruded Structural Aluminium

Connecting components:
European - hot dipped, structural grade corrosive resistant galvanised steel

Roof covering type:
Premium grade, high gloss white, PVC coated polyester fabric - UV resistant and flame retardant according to: DIN 4102 B1, M2; BS 5438/7837; USA NFPA701.



Photos - Structurflex



