



**weBETA – Structural Engineers**

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18 July 2023

The Beautiful and Useful Studio,  
Townsville Beach The Strand,  
North Ward, QLD 4810

Dear The Beautiful and Useful Studio,

**RE: Structural Design Certification - Temporary Inflatable Supports**  
**Townsville Beach The Strand, North Ward, QLD 4810**

Project Number: 23067

I, Dominic (Son Hai) Nguyen on behalf of weBETA – Structural Engineers, certify that:

- Our structural specifications for the construction of the proposed works are in accordance with the acceptance criteria below.
- We are a team of registered practicing professional structural engineers in accordance with the requirements of the BCA, Engineers Australia, NSW Design and Building Practitioner Scheme, Board of Professional Engineers of QLD and Consumer Affairs VIC.
- We have active \$5 million professional indemnity insurance.

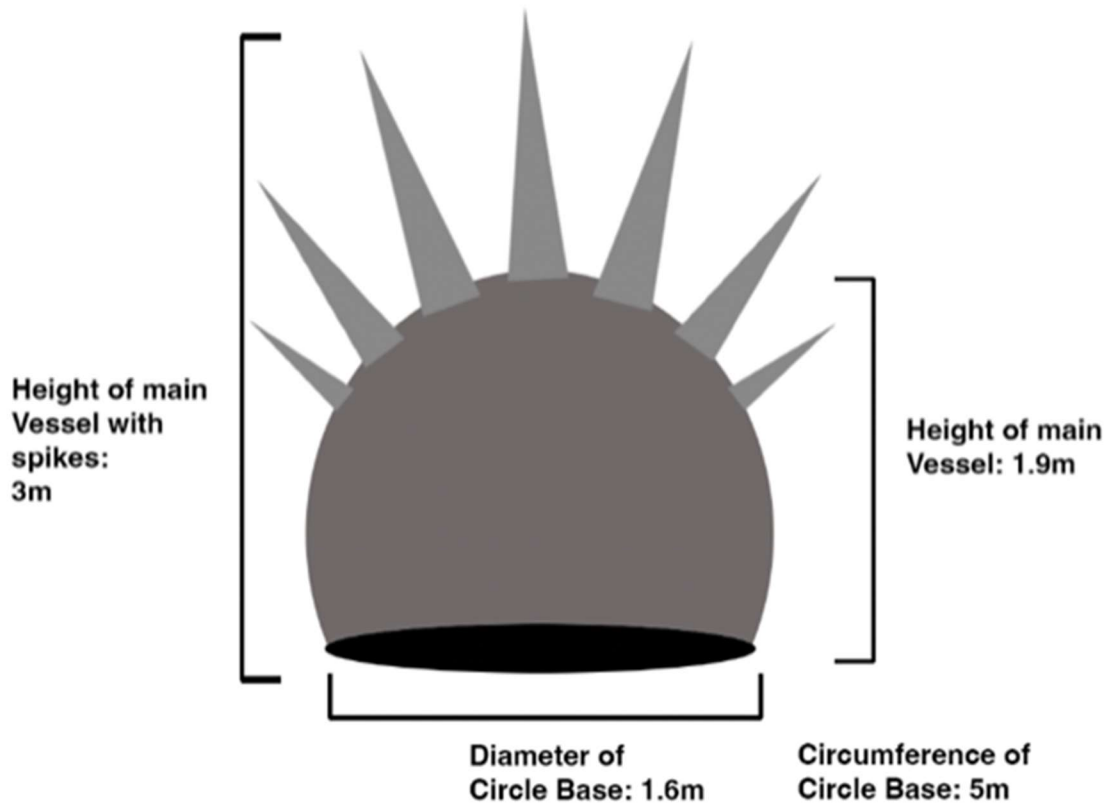
**Acceptance Criteria:**

Our structural design reviews and specifications are in accordance with the following acceptance criteria where applicable:

- **Serviceable site wind speeds of 60km/h max provided by the client**
- ABCB Temporary Structures
- AS1170.0 General Principles of Structural Design Actions
- AS/NZS1170.2 Structural Design Actions, Part 2: Wind Actions
- Industry standards, data and literature from reputable local sources

**Proposed Urchin Inflatable:**

- 3kg max fabric weight (excluding base)



**Our Structural Specifications:**

- 150kg min total weight; ratchet tied together (or similar) for uniform movement if multiple weights are utilised
- Weight shall be located within inflatable on rubber base on dry or moist (not saturated or flooded) sand
- Inflatable shall be dug into the sand; inflatable base 150 min depth below adjacent sand level
- Inflatable shall be stored away if wind speeds anticipated to be greater than 60km/h.

**Notes:**

- Our structural design reviews are based on the procured information, compliance at the time of construction unless notified or assessed otherwise, and our professional judgement.
- We are only liable for the documentation provided by us regarding structural engineering. This report shall not be construed as relieving other parties of their responsibilities, liabilities or obligations.
- This certification expires after a year from the issue date.

Yours faithfully,



Dominic (Son Hai) Nguyen  
Operations Manager & Senior Structural Engineer  
AUS 4070460 | NSW PRE0001215 | VIC PE0009645 | QLD 23510