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# THE ANCHORING CONCEPT

The keystone to the system is the Platipus ground anchor. These anchors take advantage of some basic principles of soil mechanics and do not require any concreting. They are simply hammered into the ground and are then "locked" into position by putting them under tension. Their unique design means that, depending on the kit size used and soil conditions, these lightweight, small anchors can each hold about one tonne weight.

Hundreds of thousands of Platipus Anchoring Systems have been installed worldwide in an increasing range of applications. Some of these applications include:-

**Soil Nailing**  
**Retaining Wall Support**  
**Gabion Support**  
**Sheet Pile Retention**  
**Pipeline Buoyancy**  
**Rock Stabilisation**  
**Bridge Repair**

**Guyed Structure Tie Down**  
Tree Support (Root Ball Kits & Guy systems)  
**Temporary Shelter Tie Down**  
Caravan, Portable Building & Scaffolding  
**Security/Tie Down**  
Park benches, rubbish bins, light aeroplanes,  
boats & equipment.

The Platipus Anchoring System is well proven in the field of Civil Engineering, Utility Services, Tree Anchoring and tie-downs as a lightweight, cost effective alternative to traditional techniques.



Tree Anchoring



Electrical Utility



Platipus Soil Anchors



**Platipus Soil Anchors**

**Platipus Soil Anchors**

<b>Stealth Anchors and Materials</b>				
Anchor Model	L x W x H in mm	Typical Load Range	Typical Driven Depth	Available
<b>SO2</b>	56 x 19 x 17	Up to 2.5 kN	0.3 – 0.4 m	A; H*
<b>SO4</b>	121 x 41 x 34	1 – 10 kN	0.6 – 0.75 m	A; H*
<b>SO6</b>	171 x 58 x 50	5 – 25 kN	0.8 – 1.2 m	A; H; B*
<b>SO8</b>	263 x 90 x 76	10 – 40 kN	1.1 – 1.5 m	A; H; C; B*
<b>S10</b>	375 x 115 x 101	20 – 100 kN	2.0 – 3.0 m	C; B*

\* A = Aluminium Alloy                      H = Hard Anodizing C = Cast Spheroidal Graphite Iron                      B = Aluminium Bronze

<b>Bat Anchors and Materials</b>				
Anchor Model	L x W x H in mm	Typical Load Range	Typical Driven Depth	Available
<b>BO4</b>	267 x 165 x 94	20 – 60 kN	1.5 – 2.5 m	C; B*
<b>BO6</b>	336 x 206 x 91	30 – 100+ kN	2.0 – 3.0 m	C; B*
<b>BO8</b>	423 x 259 x 105	50 – 150+ kN	3.0 – 4.0 m	C; B*
<b>B10</b>	541 x 335 x 110	75 – 200+ kN	4.0 – 5.0 m	C; B*



**ANCHOR LOAD CAPACITY**

The table provided is a guide based on general experience to date. The exact capabilities of the anchor will depend at all times on the particular soil characteristics and the anchor placement depth. The quality and consistency of the soil can affect the typical load range of an anchor considerably, e.g.:

- In a cohesive soil (poor soil for the anchors) the full driven depth shown in the table above might be required to achieve the lowest typical load shown in the table.
- In a non-cohesive soil (good for the anchors) the shortest driven depth might achieve the highest typical load.

The holding capacity of an anchor system ultimately depends on a number of factors, including the anchor type, the depth of installation and the characteristics of the soil into which it is installed. In brief, significant project cost savings (in terms of time and money) can be expected as a result of a number of factors including:

- Anchoring systems can be designed and tailor-made to meet your unique applications and projects
- Speed of installation for time-critical projects results in significant cost savings in terms of materials and labour in comparison to conventional systems
- Significantly less intrusion onto adjoining sites and no environmental damage due to no drilling or coring of soil prior to installation meaning minimal set-up time is required before work commences
- A simple installation process that does not require high cost specialist staff or equipment
- The anchors are ready to be used immediately upon installation as there is no waiting for concrete or grouting to cure
- Capable of installation at sites with access constraints or soil conditions that preclude use of conventional anchoring systems.
- Anchors require relatively small installation space - greater ease of placement in areas with access difficulties (e.g., boundary constraints)
- The use of comparatively lightweight, portable tools facilitates travel within and between sites – a relatively large number of anchors can be installed by a small crew over a comparatively short period of time
- Facility to proof test each anchor during installation, providing certainty for project managers as well as obviating the need to waste time/resources testing anchors to verify loads.