EARTH ANCHORING SYSTEMS FOR TEMPORARY & PERMANENT STRUCTURES
Platipus® have over 30 years of experience in the Design, Manufacture and Supply of Percussion Driven Earth Anchoring Solutions (PDEAs) for a wide variety of market sectors. The proof of our work, engineering skills and diligence speaks for itself in the large portfolio of examples and applications shown on our website.

**BENEFITS OF THE EARTH ANCHORING SYSTEM**

- Lightweight alternative to traditional tent pegs / steel pins
- Low cost alternative to concrete foundations
- Fast and easy installation using simple hand-held tools
- Proof tested anchor points in minutes
- Local unskilled labour can easily install the systems

**‘SIMPLY’ HOW A MECHANICAL ANCHOR WORKS**

There are three steps to the installation of an anchor system:

1. **DRIVING THE ANCHOR**
2. **REMOVING THE RODS**
3. **LOADLOCKING / SETTING**
The S4 / S6 Percussive Driven Earth Anchors (PDEAs) are made from highly corrosion resistant gravity die cast, heat treated alloys.

Designed to be highly durable in strength both during installation and in service. The anchor is connected to a stainless steel tendon (where applicable) to fully enhance corrosion resistance particularly at the soil / air interface.

The stainless steel wedge grip is designed to recess and finish flush to the structure. In many places, where the structure already exists, the option to retrofit the anchors remains a quick and viable solution compared to concrete blocks and wire guys.

The addition of a galvanised eye / shoulder bolt accessory allows its use on larger structures, like wooden school buildings and offices, where concrete foundations are not possible or are insufficient to meet the potential wind loadings.
We have four solutions for securing a variety of containers and temporary structures.

The first solution incorporates the use of a pair of anchors, webbing strap and our own tamper proof ratchet tensioner. Available in two sizes of anchor and ratchet tensioner (25mm / 16m strap and 35mm / 21m strap).

The second solution is designed to be connected underneath the structure, if access allows. This solution also incorporates our tamper proof tensioner and is available in two sizes of anchor to suit either soft or hard ground conditions.

The third solution is also designed to be connected underneath or on the lower part of the structure. It utilises our S6 cast iron anchor for driving in very hard conditions as well as our larger tamper proof tensioner for loads up to 2000kg / 4480lbs.

The fourth solution is designed solely for holding down ISO containers at their mounting points using our S8 anchor.
Tent pegs and steel pins are heavy, unreliable, expensive to air freight and not always ideal for securing strategic equipment.

We have a range of small lightweight anchors: S2, S4, S6 and S8 with standard tendons which can be installed and loadlocked almost instantaneously providing high performance secure loads subject to ground conditions.

**Approximate Anchor Capacities**

<table>
<thead>
<tr>
<th>Soil type</th>
<th>Soft</th>
<th>Medium</th>
<th>Hard</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPT / CPT</td>
<td>0 - 10</td>
<td>10 - 30</td>
<td>30+</td>
</tr>
<tr>
<td>Shear angle</td>
<td>0 - 30º</td>
<td>30 - 38º</td>
<td>38º+</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Anchor</th>
<th>S2</th>
<th>S4</th>
<th>S6</th>
<th>S8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0 - 100kg</td>
<td>0 - 300kg</td>
<td>0 - 500kg</td>
<td>0 - 1000kg</td>
</tr>
<tr>
<td></td>
<td>0 - 200lbs</td>
<td>0 - 600lbs</td>
<td>0 - 1000lbs</td>
<td>0 - 2000lbs</td>
</tr>
<tr>
<td></td>
<td>100 - 200kg</td>
<td>300 - 600kg</td>
<td>500 - 1000kg</td>
<td>1000 - 2000kg</td>
</tr>
<tr>
<td></td>
<td>200 - 400lbs</td>
<td>600 - 1200lbs</td>
<td>1000 - 2000lbs</td>
<td>2000 - 4000lbs</td>
</tr>
<tr>
<td></td>
<td>200 - 300kg</td>
<td>600 - 1200kg</td>
<td>1200 - 2000kg</td>
<td>2000 - 4000kg</td>
</tr>
<tr>
<td></td>
<td>300 - 600kg</td>
<td>1000 - 2000kg</td>
<td>2000 - 4000kg</td>
<td>4000 - 6000kg</td>
</tr>
<tr>
<td></td>
<td>400 - 600lbs</td>
<td>2000 - 4000lbs</td>
<td>2000 - 3000kg</td>
<td>4000 - 6000lbs</td>
</tr>
</tbody>
</table>

**GENERAL SECURITY - Plastic Mats, Plants & Equipment**

Our small S2 anchor is available in two simple configurations to tie down plastic mats and sheeting. Additionally using our S4 / S6 standard anchors in conjunction with additional wire strop or security chain and lock as a theft deterrent.
Basic equipment and tools are essential in the installation process. Other pieces of equipment make the general installation procedure easier and quicker. Where multiple anchor installations are required we recommend you consider using powered equipment to install the anchors.

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>DRIVE RODS</th>
<th>ROD REMOVERS</th>
<th>LOADLOCKING</th>
<th>RATCHET TENSIONERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2 SHELTB / S2 ARGS</td>
<td>HDRS2</td>
<td></td>
<td>PHK</td>
<td></td>
</tr>
<tr>
<td>S2 GEO</td>
<td>HDRS2</td>
<td></td>
<td>PH1</td>
<td>HS3 SWAGER</td>
</tr>
<tr>
<td>S4 SHELTB / S4 SHELT5</td>
<td>HDRS4ED</td>
<td>RR1</td>
<td>PHK / BOBBIN</td>
<td></td>
</tr>
<tr>
<td>S6 SHELTB / S6 SHELT5</td>
<td>HDRS6</td>
<td>RR1</td>
<td>PHK / BOBBIN</td>
<td></td>
</tr>
<tr>
<td>S41 / HK1S / S41 STROP</td>
<td>HDRS4</td>
<td>RR1</td>
<td>PH1</td>
<td>TL1S (HK1S)</td>
</tr>
<tr>
<td>S61 / HK25</td>
<td>HDRS6</td>
<td>RR1</td>
<td>PH1</td>
<td>TL25 (HK25)</td>
</tr>
<tr>
<td>S4 CG1 LEG / S4HK1</td>
<td>HDRS4</td>
<td>RR1</td>
<td>PHK</td>
<td></td>
</tr>
<tr>
<td>S6 CG2 LEG</td>
<td>HDRS6</td>
<td>RR1</td>
<td>PHK</td>
<td></td>
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<tr>
<td>S6HK2 / S6HK2C</td>
<td>HDRS6</td>
<td>RR1</td>
<td>PHK</td>
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<tr>
<td>S81 / S8HK3W</td>
<td>HDRS8</td>
<td>RR1</td>
<td>SJ1 / KLEIN</td>
<td></td>
</tr>
<tr>
<td>S61 STROP</td>
<td>HDRS6</td>
<td>RR1</td>
<td>PH1</td>
<td></td>
</tr>
</tbody>
</table>

**Drive the Anchor**
- By Hand

**Remove the Rods**
- By Hand
- or with Rod Removers

**Loadlock the Anchor**
- By Hand

**Proof Testing**
- Manual Equipment
**SPECIALIST APPLICATIONS**

### Photovoltaic Systems

**Key Benefits of the System**
- Low cost solution compared to concrete
- Fast & easy installation
- Immediate quantifiable loads
- Low environmental impact
- A 2kg anchor can provide up to 2.5 tonnes of resistance
- Bespoke installation equipment & tools
- Full training & support

### Buoyancy Control Systems

**Key Benefits of the System**
- Proven design solutions for buoyancy control of small & large pipelines
- Significant time & cost savings over concrete coating / set on / bolt on weights / bags
- Minimal environmental damage
- Proof testing of each anchor upon installation
- Application designed webbing for fast installation with no damage to pipes or their coating
- Installation before or after the pipe is laid
- No specialist installation equipment required
- Flexible anchor selection for varying soil conditions
- No Cathodic protection required

### Communication & Electricity Distribution Systems

**Key Benefits of the System**
- Low cost solution compared to concrete
- Fast easy installation & Immediate quantifiable loads
- Low environmental impact
- A 2kg anchor can provide up to 2.5 tonnes of resistance
- Bespoke installation equipment & tools
- Full training & support
Distributor

Cirtex Industries Ltd
16 Queen Street | Kopu Thames | New Zealand | PO Box 470 | Thames 3540
P: +64 7 868 9909 | 0800 247 839 | F: +64 7 868 3435 | E: info@cirtex.co.nz | W: www.cirtex.co.nz

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Platipus Anchors Limited,
Kingsfield Business Centre, Philanthropic Road,
T: +44 (0) 1737 762300
E: info@platipus-anchors.com

Platipus Anchors Inc,
1902 Garner Station Boulevard,
Raleigh, NC 27603, USA.
T: Toll Free (USA): (866) 752-8478
E: salesvlta@platipus.us

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