INTRODUCTION TO PLATIPUS
Tree Anchoring Systems, Irrigation & Landscape Applications

Since first pioneering the concept of underground tree anchoring in 1983, Platipus have designed, manufactured and supplied systems to secure, stabilize and irrigate trees on prestigious projects as well as thousands of smaller and private sites all over the world. Some examples of our prestigious projects include:

- Olympic Games & World Athletics Championships 2017, London, UK
- Franklin D Roosevelt Four Freedoms Park, New York, USA
- Expo Milan, Milan, Italy
- The Garden Show, Burg, Germany
- City Walk, Dubai, UAE
- Edward Street, Brisbane, Australia

By securing the rootball underground our systems allow for quick root development resulting in very low mortality rates for newly planted trees.

A comprehensive range of kits and installation tools are available to provide above and below ground anchoring for standard and semi-mature tree transplants up to 20m high. With continuous innovation we have developed high quality standard tree anchoring solutions for on-grade and on-structure, large palm trees or typhoon locations and permanent tree anchoring situations.
THE PLATIPUS EARTH ANCHOR

The installation of the anchor system consists of three easy steps:

1. DRIVE THE ANCHOR
2. REMOVE THE ROD
3. LOADLOCK THE ANCHOR

Our Percussion Driven Earth Anchor (PDEA®) is a unique, modern and versatile device that can be rapidly installed in three steps using simple hand or powered tools. The cutting edge design ensures fast and easy installation and when fully loadlocked the anchor is immediately ready for use.

These systems are specifically designed to provide security and stability to the transplanted tree for three to five years whilst the roots establish themselves. Thereafter key elements of the system will degrade to allow unrestricted root growth and the remaining parts may be recycled.

The following anchors are used in our tree systems and are selected according to the size of the tree, the design and layout of the planting area and local soil and weather conditions. Where appropriate, we can test our anchors on site, prior to installation, to provide quantifiable load data. Bespoke solutions for projects requiring a longer design life can be supplied using stainless steel accessories.

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>DIMENSIONS L X B X H (mm)</th>
<th>MATERIALS</th>
<th>ANCHOR CABLE LENGTHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>S21</td>
<td>80 X 28 X 25</td>
<td>Aluminium Alloy</td>
<td>0.6m</td>
</tr>
<tr>
<td>S41</td>
<td>121 X 41 X 34</td>
<td>Aluminium Alloy</td>
<td>0.75m</td>
</tr>
<tr>
<td>S61</td>
<td>171 X 58 X 50</td>
<td>Aluminium Alloy</td>
<td>1.2m</td>
</tr>
<tr>
<td>S81</td>
<td>263 X 90 X 76</td>
<td>Aluminium Alloy</td>
<td>1.5m</td>
</tr>
<tr>
<td>B61</td>
<td>336 X 206 X 91</td>
<td>Galvanised Spheroidal Graphite Iron</td>
<td>1.5m</td>
</tr>
</tbody>
</table>
TREE ANCHORING WITH ANCHORS
Rootball Fixing System - Plati-Mat®

The Platipus rootball fixing system, including Plati-Mat®, remains the preferred method of securing rootballed, airpot and containerised semi-mature trees. The ease of installation and lack of unsightly guy wires makes it the first choice of customers.

Over the past three decades, we have developed an extensive range of unique underground fixing solutions to suit most applications.

The Plati-Mat® allows secure positioning of newly transplanted trees, whilst offering major benefits over traditional root support systems.

Available in five standard sizes, the Plati-Mat® can be tailored to suit most rootball dimensions. This significant development allows faster installation and provides a greater contact surface area at the top of the rootballed, airpot or container grown tree.

THE BENEFITS INCLUDE:

- Planting at the nursery line
- Reduced overall installation time
- More secure fixing creating better establishment
- No unsightly stakes or timber above ground
- Suitable for most rootballed, airpot and containerised stock
- 4 Leg options available for larger trees

<table>
<thead>
<tr>
<th>TREE HEIGHT / CIRCUMFERENCE</th>
<th>DESCRIPTION</th>
<th>PRODUCT CODE</th>
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</thead>
<tbody>
<tr>
<td>Up to 2.5m / Up to 12m</td>
<td>3 x S21 anchors, 2 metres of galvanised wire, 1 x ratchet tensioner &amp; 3 x Plati-Mats®</td>
<td>RF0P</td>
</tr>
<tr>
<td>2.5 - 4.5m / 12 - 25cm</td>
<td>3 x S41 anchors, 4 metres of galvanised wire, 1 x ratchet tensioner &amp; 3 x Plati-Mats®</td>
<td>RF1P</td>
</tr>
<tr>
<td>4.5 - 7.5m / 25 - 45cm</td>
<td>3 x S61 anchors, 5 metres of galvanised wire, 1 x ratchet tensioner &amp; 2 x Plati-Mats®</td>
<td>RF2P</td>
</tr>
<tr>
<td>7.5 - 12m / 45 - 75cm</td>
<td>3 x S81 anchors, 8 metres of galvanised wire, 1 x ratchet tensioner &amp; 3 x Plati-Mats®</td>
<td>RF3P</td>
</tr>
<tr>
<td>12m+ / 75cm+</td>
<td>3 x B61 anchors, 10 metres of galvanised wire, 1 x ratchet tensioner &amp; 3 x Plati-Mats®</td>
<td>RF4P</td>
</tr>
</tbody>
</table>
There is a general trend across the world to plant much taller trees of all species, including palm trees. Traditionally these have been planted without support or are supported using unsightly wooden props, sometimes with disastrous results.

Platipus, in conjunction with Landscape Architects and Palm Tree Nurseries, have refined our underground tree anchoring system to meet the demand of anchoring these large rootballed or container grown palm trees.

Available as a 3 Leg or 4 Leg system these solutions offer an instantly attractive finish to any landscape. Bespoke and stainless steel options are also available to suit individual requirements.

Note: Palm tree rootballs must be a minimum of 2 metres in diameter, properly rootwrapped and of sufficient strength and proportion to support a rootball fixing method. The correct palm tree kit required must be specified by the Landscape Architect once the rootball dimensions, tree height and sail area of the tree have been established.

**3 LEG SYSTEM**

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<tr>
<th>TREE HEIGHT</th>
<th>DESCRIPTION</th>
<th>PRODUCT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 6m</td>
<td>3 x S81 anchors, 8 metres of galvanised wire, 1 x ratchet tensioner &amp; 3 x Plati-Mats®</td>
<td>RF3P</td>
</tr>
<tr>
<td>6 - 12m</td>
<td>3 x B61 anchors, 10 metres of galvanised wire, 1 x ratchet tensioner &amp; 3 x Plati-Mats®</td>
<td>RF4P</td>
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**4 LEG SYSTEM**

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<tr>
<th>TREE HEIGHT</th>
<th>DESCRIPTION</th>
<th>PRODUCT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Up to 6m</td>
<td>3 x S81 anchors, 8 metres of galvanised wire, 2 x ratchet tensioners &amp; 4 x Plati-Mats®</td>
<td>RF3P4LEG</td>
</tr>
<tr>
<td>6 - 12m</td>
<td>3 x B61 anchors, 10 metres of galvanised wire, 2 x ratchet tensioners &amp; 4 x Plati-Mats®</td>
<td>RF4P4LEG</td>
</tr>
</tbody>
</table>

Please contact the technical team for information and specification guidance.
Guy fixing kits are available in a range of sizes to suit most high quality tree transplants up to 20m high. These kits are fast and easy to install, offer effective support for trees in highly exposed areas and for trees which require correction against leaning.

A simple drive rod and tension lever is required for installation although powered machinery is recommended for multiple installations and for G3 / G4 kits. We are happy to recommend kits for particular applications and soil conditions.

**TYPHOON ANCHORING**

The annual threat of hurricanes & typhoons has meant that around the world, there is a requirement to provide additional above ground support to trees in exposed locations such as pool decks, raised planters and roof gardens. We work closely with the Client and Landscape Architect to ensure the correct solution is specified. This could involve field trials on-site to test anchor suitability and may result in a variety of systems being specified (i.e. extra depth, 4 leg variants, permanent stainless components). Our typhoon systems have been tested during field trials and installations with no adverse effect on the symmetry or stability of the trees and palms.
Introducing a NEW development in underground Tree Anchoring Solutions.

With the ever increasing desire to create beautiful landscapes in challenging urban environments and roof gardens there are many occasions where a standard tree anchoring system cannot be used due to the location of buried services or shallow planting areas. The award-winning D-MAN® is a strong, compact and lightweight system primarily designed to replace the traditional kerbstone or sleeper deadman.

D-MAN® can be used individually or in multiples and cells simply lock / unlock together. It has a distinctive letterbox style wire tendon anchor point and a unique cup for valuable water storage. D-MAN® is made from recycled plastic and when combined Plati-Mat® and our own engineered ratchet tensioner provides excellent stability to the tree.

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<tr>
<th>TREE HEIGHT / CIRCUMFERENCE</th>
<th>DESCRIPTION</th>
<th>PRODUCT CODE</th>
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</thead>
<tbody>
<tr>
<td>2.5 - 4.5m / 12 - 25cm</td>
<td>3 x wire chokes, 4 metres of galvanised wire, 1 x ratchet tensioner, 3 x Plati-Mat® &amp; 3 x D-MAN® Cells</td>
<td>RF1PDMAN</td>
</tr>
<tr>
<td>4.5 - 7.5m / 25 - 45cm</td>
<td>3 x wire chokes, 4 metres of galvanised wire, 1 x ratchet tensioner, 3 x Plati-Mat® &amp; 6 x D-MAN® Cells (3 x 2 cells connected)</td>
<td>RF2PDMAN</td>
</tr>
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</table>

D-MAN® STRUCTURAL SYSTEMS

D-MAN® cells can be easily connected together and stacked to create a structural system to suit any planting area or podium. This allows for trees with rootballs of varying heights to be planted level and also provides options to influence the architecture of the soil.

The D-MAN® Structural System alleviates many problems caused by planting in restricted urban areas.

- Cover and protect large planting areas & roof gardens
- Stack cells, by rotating them 180°, to allow planting areas to be built up.
- Secure trees & large shrubs with our D-MAN® Anchor System in any location
- Allows catchment water to drain underneath leaving the balance in cells

For planning guidance, these cells fit 16 per m² and 208 per m²
TREE ANCHORING WITHOUT ANCHORS
Deadman System - Plati-Mat®

Designed to satisfy the requirements of a specialist market, traditional deadmen systems have enabled Platipus to offer effective solutions for planting in difficult urban environments, where buried services may be a problem.

The systems use kerbstones or sleepers as anchor points and providing that the soil placed on top of the kerbstones or sleepers has been well compacted before placing the tree in the pit, the systems offer a fast and efficient method of securing rootball trees up to 12 metres high.

<table>
<thead>
<tr>
<th>TREE HEIGHT / CIRCUMFERENCE</th>
<th>DESCRIPTION</th>
<th>PRODUCT CODE</th>
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<tbody>
<tr>
<td>2.5 - 4.5m 12 - 25cm</td>
<td>3 x wire chokes, 4 metres of galvanised wire, 1 x ratchet tensioner &amp; 3 x Plati-Mat®</td>
<td>RF1RDMP</td>
</tr>
<tr>
<td>4.5 - 7.5m 25 - 45cm</td>
<td>3 x wire chokes, 5 metres of galvanised wire, 1 x ratchet tensioner &amp; 3 x Plati-Mat®</td>
<td>RF2RDMP</td>
</tr>
<tr>
<td>7.5 - 12m 45 - 75cm</td>
<td>3 x wire chokes, 8 metres of galvanised wire, 1 x ratchet tensioner &amp; 3 x Plati-Mat®</td>
<td>RF3RDMP</td>
</tr>
</tbody>
</table>

TREE ANCHORING WITHOUT ANCHORS
Eyebolt System - Plati-Mat®

In addition to our standard systems, we also provide individual bespoke tree anchoring systems to resolve challenging planting situations such as roof gardens, containers, solid bases and unusual urban sites.

<table>
<thead>
<tr>
<th>TREE HEIGHT / CIRCUMFERENCE</th>
<th>DESCRIPTION</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2.5 - 4.5m / 12 - 25cm</td>
<td>3 x expanding eyebolts with wire attached, 1 x ratchet tensioner with 4 metres of wire, 3 x Plati-Mat® &amp; 9 x rope grips</td>
<td>RF1RP</td>
</tr>
<tr>
<td>4.5 - 7.5m / 25 - 45cm</td>
<td>3 x expanding eyebolts with wire attached, 1 x ratchet tensioner with 5 metres of wire, 3 x Plati-Mat® &amp; 9 x rope grips</td>
<td>RF2RP</td>
</tr>
</tbody>
</table>

Concrete Ring
Concrete Base

For large tree sizes, please contact the technical team for information and specification guidance.
PERMANENT ANCHORING SOLUTIONS

In addition to our standard solutions we can also provide permanent tree anchoring systems, using stainless steel accessories, available in a wide range of options to suit individual applications such as:

- Podiums
- Roof Gardens
- Bridges
- Concrete Planters
- Jetties

IDEAL APPLICATIONS

- Coastal environments with high levels of salinity
- Sites which are constantly exposed to high winds and heavy rainfall
- On-structure applications where root development is restricted by shallow and narrow planting pits

Please contact the technical team for information and specification guidance.
TREE ANCHORING WITH STRAP

ROOTBALL FIXING SYSTEM - STRAP

This tree anchoring system, using our own webbing strap and bespoke tensioner, is ideal for small inexpensive rootballed trees on projects with a limited budget.

Although designed as a low cost tree anchoring system, careful consideration and many years of development have enabled us to manufacture a strap tensioner capable of producing the high loads needed to correctly anchor and secure these trees. Both 25mm and 35mm standard strap tensioners have been specifically engineered to meet our usual high standards.

THE BENEFITS INCLUDE:

- No more leaning trees due to insufficient tension from inferior cargo ratchets
- No unsightly stakes or timber above ground
- Planting at nursery line
- System uses proven anchor technology
- Specially engineered tensioners
- Strap trims easily with scissors

DEADMAN SYSTEM - STRAP

Designed to satisfy the requirements of a specialist market, deadman systems have enabled Platipus to offer effective solutions for planting in difficult urban environments, where services may be a problem.

The systems use kerbstones or sleepers as anchor points and providing that the soil placed on top of the kerbstones or sleepers has been well compacted before placing the tree in the pit, the systems offer a fast and efficient method of securing rootball trees up to 12 metres high.

<table>
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<th>TREE HEIGHT / CIRCUMFERENCE</th>
<th>DESCRIPTION</th>
<th>PRODUCT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 - 4.5m / 12 - 25cm</td>
<td>3 x S61 anchors with delta links, 5 metres x 35mm strap &amp; 1 strap tensioner</td>
<td>RF2S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TREE HEIGHT / CIRCUMFERENCE</th>
<th>DESCRIPTION</th>
<th>PRODUCT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 - 4.5m / 12 - 25cm</td>
<td>3 x wire chokes with delta links, 4 metres x 25mm strap &amp; 1 x strap tensioner</td>
<td>RF1RDMS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TREE HEIGHT / CIRCUMFERENCE</th>
<th>DESCRIPTION</th>
<th>PRODUCT CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 - 4.5m / 12 - 25cm</td>
<td>3 x expanding eyebolts with cable attached, 1 x strap tensioner, 5 metres x 35mm strap, 3 x delta links &amp; 9 rope grips</td>
<td>RF2RS</td>
</tr>
</tbody>
</table>

It is not advisable to use any strap systems for container grown stock (see Plati-Mat® systems).
Basic tools are essential in the installation process. Other equipment makes the general process easier and quicker. Where multiple installations of trees are concerned we recommend you consider using powered equipment to install the anchors. Additionally you will find it easier to install the larger "RF" and "G" kits using either petrol or compressed air breakers.

<table>
<thead>
<tr>
<th>PRODUCT CODE</th>
<th>DRIVE RODS</th>
<th>ROD REMOVERS</th>
<th>LOADLOCKING</th>
<th>TENSIONER</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF1P / G1</td>
<td>HDRS4 / PDRS4</td>
<td>RR1</td>
<td>PH1</td>
<td>TL1</td>
</tr>
<tr>
<td>RF2P / G2</td>
<td>HDRS6 / PDRS6</td>
<td>RR1</td>
<td>PH1</td>
<td>TL1</td>
</tr>
<tr>
<td>RF3P / G3</td>
<td>HDRS8 / PDRS8</td>
<td>RR1</td>
<td>SJ1</td>
<td>TL2</td>
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<tr>
<td>RF4P / G4</td>
<td>HDRS8 / PDRS8</td>
<td>RR1</td>
<td>SJ1</td>
<td>TL2</td>
</tr>
<tr>
<td>RF1S</td>
<td>HDRS4 / PDRS4</td>
<td>RR1</td>
<td>PH1</td>
<td>TL1S</td>
</tr>
<tr>
<td>RF2S</td>
<td>HDRS6 / PDRS6</td>
<td>RR1</td>
<td>PH1</td>
<td>TL2S</td>
</tr>
<tr>
<td>S2ZIP</td>
<td>HDRS2</td>
<td>X</td>
<td>PH0Z</td>
<td>X</td>
</tr>
<tr>
<td>GEOCLIP</td>
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Please contact us for recommended Geoclip installation tools

For a comprehensive range of tree kits & installation tools, contact the technical team
OTHER LANDSCAPE PRODUCTS
Piddler® Tree Irrigation & Aeration System

Drought stress is one of the biggest contributors to high mortality rates of transplanted trees in the first few years after planting. Water is vital for tree growth and sustainability and without regular watering the tree will suffer irreparable damage.

During the summer a 6cm girth tree typically requires at least 30 litres of water per month and a semi-mature tree, with a girth of 20cm or more, needs 300 litres of water per month. The use of a targeted irrigation system that delivers water directly to the root zone provides huge benefits to the tree’s development.

THE BENEFITS INCLUDE:
• Efficient & even delivery of water & air directly to the tree roots
• Minimal waste – no run off, evaporation or water escaping to the bottom of the tree pit
• Easy watering using a hose pipe through the debris cap or the pressurised adaptor for increased water flow
• Quick to assemble, tailor to fit on all rootball sizes
• The membrane design prevents blockages & directs roots down to their ideal growing zone
• Lightweight & compact, compared to traditional pipe systems, offering significant freight cost savings

<table>
<thead>
<tr>
<th>FOR ROOTBALLS UP TO Ø (CM)</th>
<th>HEADER HEIGHT (CM) / QTY</th>
<th>MEMBRANE LENGTH (M)</th>
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</thead>
<tbody>
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<td>55</td>
<td>25/1</td>
<td>2</td>
<td>PID0</td>
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<td>90</td>
<td>30/1</td>
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<td>155</td>
<td>30/1</td>
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<tr>
<td>240</td>
<td>30/2</td>
<td>8</td>
<td>PID3</td>
</tr>
<tr>
<td>310</td>
<td>30/3</td>
<td>10</td>
<td>PID4</td>
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</table>
OTHER LANDSCAPE PRODUCTS
S2 Zip Anchor

NEW S2 Zip Anchor - the latest innovation in securing Landscape Fabrics

To compliment our comprehensive range of tree anchoring systems, Platipus has developed the simple, cost-effective and reliable S2 Zip Anchor to secure a wide variety of landscaping fabrics.

THE BENEFITS INCLUDE:

- Ideal for weed control, ground covers and grass reinforcement
- Reliable alternative to traditional pins or pegs meaning less anchors may be required to cover the same area
- Reduces time and labour costs associated with reinstalling loose pins
- Easy to assemble and quick to install using simple hand tools
- Self-locking load plate holds material securely to the ground
- UV stabilised and highly corrosion resistant
- Excellent surface erosion solution when used with suitable geotextiles

The S2 Zip anchor can be easily and efficiently installed using lightweight equipment:

1. Drive Anchor
2. Remove Rod
3. Loadlock
4. Set Plate
5. Cut Excess

GEOCLIP

The Geoclip System is used to secure Geoweb, particularly when installed in difficult locations. This system can be tailored depending on the project and it is possible to use different anchor sizes or adapt it for use on structure.

The system includes stainless steel wire tendon, Geoclip and Wedge Grip for a reliable and long lasting support.
Due to settlement of the tree and after watering, re-tensioning is highly recommended.

1. **Tree Sizes**
   Is there accurate information regarding the overall height and circumference of the trees at 1m from the rootball?

2. **Sail Area**
   What size sail area do the trees have?

3. **Root Structure**
   The trees should be properly rootwrapped, airpot or container grown and of sufficient strength and proportion to support an underground fixing method. When pushed, does the stem move while the rootball, airpot or container does not? If the system does move, then an above ground guying system should be used. (See page 6)

4. **Site Location**
   Where are the trees to be planted and what is the sites exposure to winds and heavy rainfall? Has an anchor test been carried out?

5. **Soil Conditions**
   Is the soil on the site compact/undisturbed, or made up ground? Have large amounts of top soil been brought in to create planting areas and changes in the profile of the landscape? If so, you may need to use Extra Depth (ED) kits, or D-MAN®/Deadman Systems. (See pages 7 & 8)

6. **Buried Services**
   Has the planting area been checked for all underground services such as drains, water, gas, electricity or fibre optic/telecom cables? If services are known to be present, we recommend an alternative system such as our D-MAN® or Deadman System (See pages 7 & 8).

7. **Loadlocking Correctly**
   You must loadlock the anchors properly into their working position, by applying an upwards force / load on the wire tendon. If the anchors are not loadlocked properly, the tree will become loose when the first winds arrive.
AUTOCAD DRAWINGS

We are committed to providing our customers with effective products and solutions, together with unrivalled customer service and support. As part of this commitment, we offer AutoCad drawings of all our tree anchoring systems. This will enable you to choose the correct Platipus products and incorporate them directly into your designs and specifications.

AutoCads can be easily downloaded directly from the tree systems section of our website: www.platipus-anchors.com.

PRESENTATIONS

We understand the importance of Continued Professional Development. Our philosophy is to offer busy professionals the opportunity to discover the advantages of the Platipus Tree Anchoring System through comprehensive technical presentations, at a time and location convenient to you.

Please contact the technical team if you would like to organise a 1 to 1, group or webinar presentation.

DEMONSTRATIONS

Our tree anchoring specialists provide the following on-site services free of charge:

- Load testing of our anchor systems
- Planning advice and guidance to Landscape Architects, Garden Designers and Contractors
- Installation demonstrations
- Installation training

On-site supervision is also available on a case by case basis. Please contact our technical team for more details.

PLATIPUS NEWS

You can also stay up to date with the latest Platipus News including case studies, videos and much more by following us on Social Media and Youtube. Find us here:

- www.youtube.com/user/platipusearthanchors
- www.facebook.com/platipusanchors
- www.twitter.com/PlatipusAnchors
## INSTALLATION GUIDE
Rootball Fixing System - Plati-Mat®

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<tbody>
<tr>
<td>RF1P</td>
<td>RF2P</td>
<td>RF3P</td>
<td>RF4P</td>
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**Kit**

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**STOP!**

For more installation guides, visit our website or Youtube channel
INSTALLATION GUIDE
D-MAN® Anchor System - Plati-Mat®

RF1PDMAN

RF2PDMAN

Kit

For more installation guides, visit our website or Youtube channel
The London Olympic Park was built on a contaminated brownfield site. The Platipus Deadman Fixing System Plati-Mat (Olympic Spec) was specified to anchor a vast amount of semi mature and specimen trees as traditional driven anchors could not be used as they would have punctured the geosynthetic layer used to isolate the contamination.

LDA Design in collaboration with Hargreaves Associates led the design for the entire 102 hectare site and masterminded its transformation from contaminated industrial land into a 21st century park. The London Olympic Park was the UK’s largest urban park with over 6 million visitors during the Olympic and Paralympic Games. As well as remaining a sporting and entertainment venue, the Queen Elizabeth Olympic Park now caters for a wide range of everyday uses including the 2017 World Championships.
The Franklin D. Roosevelt Four Freedoms Park, located in the East River of New York City between Manhattan and Queens, was built as a tribute to the historic wartime speech given by FDR in 1941. Designed by architect Louis Kahn in 1973, the island public park is triangular in shape and is lined with Littleleaf Linden trees around a white granite landscape.

To maintain the geometrical design of the park, the Platipus Rootball Fixing System was used in lieu of stakes and guy wires. The system also served to secure the trees against the wind loads off the surrounding water. In October 2012, just days after the official dedication, Hurricane Sandy threatened the park by producing wind gusts of over 70 mph. This major storm event did not impact the position or symmetry of the trees due to the strong stability of the anchored rootball.

Project Specification

The Franklin D. Roosevelt Four Freedoms Park, New York - USA

CASE STUDY

The Franklin D Roosevelt Four Freedoms Park, New York - USA
**Project Specification**

Expo Milano 2015 is the Universal Exhibition that Milan hosts in 2015. For over 6 months Milan becomes a global showcase where over 140 countries are participating and welcomes over 20 million visitors to its 1.1 million square meter of exhibition area. This significant project puts Milan in the light of the international scene.

A variety of Platipus underground Rootball Fixing Systems were chosen to secure the numerous green spaces between the pavilions inside the Expo. Platipus systems were able to provide a clean finish to this prestigious project and also ensured the trees were safely anchored in this large public space. Platipus worked closely with the Landscape Contractor in providing unlimited technical support and free on-site training to its landscape teams.
From April 2018 this public park will form the entrance to the Landesgartenschau castle. The park, built in 1913 as a railway station, lies in the west of the city which acts as a green axis between the station and the city center. The 9.5-hectare park is permanently upgraded in terms of function and design in order to fulfill its role as a central inner city park and recreation center. The fire brigade monument and the honorary cemeteries are a contrast between the places of silent remembrance. In addition, historical tombstones and 24 pattern tombs are presented in the park.

Before the opening of the Garden Show, more than 135 trees will be anchored in the park with underfloor anchoring systems by Platipus. As an alternative to wooden poles, this anchoring method ensures an undisturbed landscape as well as providing a healthy, unobstructed way to grow.
CASE STUDY
Palm Fixing Systems, City Walk - Dubai

Project Specification

This 13,000 square metre retail and dining development in the Jumeirah district of Dubai featured wide boulevards planted with mature, transplanted palm trees. These required immediate support to stand up straight when planted and for the high end design aesthetic the client required traditional above ground staking was not acceptable.

The landscape architect specified Platipus Palm Fixing System with Plati-Mat® to provide underground anchoring with no part of the system showing above the nursery line. A four leg system was also chosen to provide extra security to the tall palms and the Plati-Mat® rootball protection systems allowed the load generated by the anchors to be evenly spread across the rootballs without affecting their integrity. WTB Middle East FZE provided installation training and supervision during the first planting phases and regular feedback to the landscape architect throughout.
An upgrade project started in September 2016 to transform this area of the Central Business District into a world-class retail environment with open footpaths and a tree-lined boulevard. 25no. Kauri Pines were planted in areas with buried services and the City Project Office did not want to restrict pedestrian access by using wooden stakes or above ground guy wires to support the transplanted trees.

The Platipus Deadman Fixing System with Plati-Mat was specified to anchor the trees and to provide a clear aesthetic finish to the landscape. This system allowed tall 7 – 9m high trees to be planted in restricted planting areas without damaging the buried services and still provided excellent stability and support to keep the trees secure. To minimize the impact on local traders, the installation was conducted at night and Cirtex Australia Ltd provided on-site advice to ensure this was done efficiently.