Forestry & Landscaping

TUBEX
Advancing growth
Our story so far...

Tubex has been at the forefront of shelter development since the first research into treeshelters came into fruition in the early 1980’s. Since then, Tubex has worked hard to build the strong global brand that it is today.

1983
Acorn start manufacturing the original ‘Gro-Cone’ using co extruded mesh and film.

1985
Tubex creates the manufacturing process enabling commercialisation of the first tubular polypropylene treeshelter.

1990-1995
Tubex refine shelter specification reducing life-span from 15 years to 5-7 years and introduce the laserline splitting technology, reflecting customer requirements.

1990-1995
Tubex expand into Europe and further afield, taking treeshelter technology into a number of countries, most notably Spain, Germany and USA.

1995-2000
Acorn drop the Gro-Cone range in favour of Treeguard and Shelterguard offering unique, dual-degradation technology.

2006
Tubex start work on the ‘next generation of treeshelter’, allocating resources in the quest to find alternative manufacturing materials and improved control over degradation, setting up trial sites both in the UK and Germany.

2007
In the USA the application of treeshelters in riparian planting zones is proven to accelerate the beneficial effects of planting trees to reduce nitrate run-off and subsequent algae bloom in water ways. Sales increase rapidly as a result.

2009
Boddingtons Group purchase Acorn and, by improved efficiencies and energetic sales activity, almost double turnover within the space of two seasons.

2011
In January Boddingtons Group are purchased by Fiberweb Geosynthetics, who in May also purchase Tubex, bringing together the two most popular shelter technologies currently manufactured.

TODAY
Tubex comprises of the most comprehensive and wide ranging plant protection portfolio currently available anywhere in the world and continues to be market leader through innovation.
Overview of shelters

Tubex shelters have been specially designed to provide the right solution for your planting needs. Over the years we have developed unique features that all contribute to the effective establishment of trees.

Features of shelters:

- Laserline, designed to split avoiding strangulation as plant grows
- Nested for ease of transport and storage, whilst maintaining original shape
- Flared rim to minimise stem abrasion
- Pre fitted thumb releasable ties for quick, easy installation and maintenance
- Twin wall construction for rigidity and best strength to weight ratio
- UV stabilised polypropylene to provide minimum 5 year protection
- Strengthening rods at stake area to prevent tearing of the shelter
- Optional extras include punched holes for ventilation
- Available in Bio-Hybrid

Features of mesh range:

- Pre fitted thumb releasable ties for quick, easy installation and maintenance
- UV stabilised and made from recycled plastic to provide minimum 7 year protection
- Flared rim to minimise stem abrasion
- Nested for ease of transport and storage, whilst maintaining original shape
- Weld line and flared rim splits avoiding strangulation as plant grows
- Available in Oxo-Bio
In 1978 the first treeshelters were installed with Graham Tuley and the Forestry Commission, UK. Since then, Tubex have been researching into the benefits of using treeshelters with independent trial sites set up in many different countries and research institutions.

**Benefits of using Shelters**

**Faster establishment** - this was first researched with the Forestry Commission in 1991, and can be attributed to the microclimate that is created inside treeshelters.

**Protection against animals and herbicides** - individual protection allows flexibility in site maintenance. Treeshelters permit animal grazing and use of herbicides.

**Healthy root growth** - a healthy root system is essential to the establishment of trees. Studies are being undertaken in France and Germany on the development of root systems in treeshelters. Initial conclusions of preliminary study show that healthy roots have been established in trees planted with treeshelters.

**Cost savings** - the largest cost when planting a tree is the reduced return on investment from badly formed crop, or the total loss of investment due to crop failure. Planting with Tubex shelters increases survival rates, giving you confidence to plant smaller cheaper trees. Smaller trees are easier to transport and also may be planted at lower stocking densities. Tubex shelters improve the form of the tree, and encourage healthy faster establishment, increasing the value in timber and improving the return on investment.

*For more details on cost savings, please visit www.tubex.com

**Visual benefits** - these benefits have never been studied but have been identified from users of treeshelters; **Fewer side shoots** as the microclimate encourages vertical growth, **easy tree identification** in a dense woodland, and visual impact as the mesh range blend subtly into the natural environment.
Innovation at Tubex

The Tubex brand is recognised worldwide as one of quality of product and service. The objective at Tubex is to add value to our customers by understanding their needs and providing a solution to their problems. Innovation is key to finding those solutions, and that is why Tubex focus resource into developing new technologies, remaining the global market leader in treeshelters.

‘The next generation of treeshelters’

The most significant project since 2006 has been to find alternative sustainable material, which degrades more rapidly, but predictably, so that manual removal and disposal of the shelter is not required. The focus has been on finding biodegradable solutions and many trial sites have been set up in Europe, where Tubex continue to monitor and test new materials. Full product transparency is important to Tubex so below is an outline of what materials are in use;

Oxo – Bio – Degradable = Photodegradable polypropylene + catalyst; degradation caused by reaction with O₂ is accelerated by catalyst. Field tested 6+ years.

Bio – Hybrid = Use of biopolymer and photodegradable polypropylene; degradation is accelerated as 30% is biodegradable. Field tested 3+ years.

The next step is to combine both technologies and have a ‘Bio Bio’ shelter;

Bio – Bio = Photodegradable polypropylene + catalyst (oxo-bio) + biopolymer; 30% will be biodegradable, whilst 70% will be oxo-biodegradable. Has undergone 2 years of field testing and plans to be launched in 2013.

Tubex is proud to have a Technical Advisory Panel (TAP) providing independent, scientific and technological expert advice towards our product development. If you have a question for members on the TAP panel please email TAP@tubex.com

Quality is also important to Tubex, both in the manufacturing process and in product. The following accreditations have been awarded to Tubex;

Having difficulty choosing the right product? Visit our online product selector:

Size Guide

1.8m Red Deer
1.5m Fallow Deer
1.2m Roe Deer
0.75m Hare
0.6m Rabbit
0.2m Vole
The world’s best known and best selling treeshelter. Tubex Standard incorporates all the tried and tested Tubex features to provide enhanced growth and reliable plant protection.

Tubex Standard is designed to last a minimum of 5 years*, boosting the chances of survival and healthy growth through the early stages of the tree’s life. Tubex Standards are quick and easy to install, provide a microclimate which aids strong root and stem growth, allowing planting of smaller, cheaper trees. For bigger planting jobs, Tubex Standard Plus in a wider diameter than the normal standard, gives more space for larger species to grow. For more exposed site conditions, consider Tubex Combitube.

*shelter longevity is dependent on site and weather conditions but is typically 5-7 years

<table>
<thead>
<tr>
<th>Products</th>
<th>Standard</th>
<th>Standard Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights (m)</td>
<td>0.6, 0.75, 1.2</td>
<td>1.2, 1.5, 1.8</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>73 - 105</td>
<td>80 - 120</td>
</tr>
<tr>
<td>Nest</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Bundles</td>
<td>100</td>
<td>60</td>
</tr>
<tr>
<td>Colour</td>
<td>Green</td>
<td>Light Green</td>
</tr>
<tr>
<td>Ties</td>
<td>1 x 9&quot; (0.6m)</td>
<td>2 x 10&quot;</td>
</tr>
<tr>
<td></td>
<td>2 x 10&quot; (0.75m+)</td>
<td>2 x 10&quot;</td>
</tr>
<tr>
<td>Support</td>
<td>Stake</td>
<td>Stake</td>
</tr>
</tbody>
</table>

For installation guides, data sheets and case studies on this product please go to: www.tubex.com
‘or’ call us on 01621 874201
With a patented design, the Tubex Ventex is the most popular shelter in Europe balancing the benefits of enhanced growth and reliable plant protection.

Tubex Ventex is designed to last a minimum of 5 years*, boosting the chances of survival and healthy growth through the early stages of the tree’s life. Tubex Ventex improves growing conditions for trees by modifying the traditional treeshelter balance of CO₂, air humidity and light resulting in the perfect ‘equilibrium’. These modified conditions are produced through specifically sized and positioned ventilation holes as well as a light green colour to enhance light transmission. This shelter provides plant protection, however is better suited to an environment where herbicide spraying is not used.

*shelter longevity is dependent on site and weather conditions but is typically 5-7 years.

<table>
<thead>
<tr>
<th>Product</th>
<th>Ventex</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights (m)</td>
<td>0.9, 1.2, 1.5, 1.8</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>80 - 120</td>
</tr>
<tr>
<td>Nest</td>
<td>5</td>
</tr>
<tr>
<td>Bundles</td>
<td>60</td>
</tr>
<tr>
<td>Colour</td>
<td>Light Green</td>
</tr>
<tr>
<td>Ties</td>
<td>2 x 10”</td>
</tr>
<tr>
<td>Support</td>
<td>Stake</td>
</tr>
</tbody>
</table>

Studies done in the early 90’s showed how ventilation in the shelter increases the stem diameter.

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Tubex Combitube is designed to last a minimum of 5 years*, boosting the chances of survival and healthy growth through the early stages of the tree’s life. Ventilation is provided by a number of 4mm laser-generated perforations in a set of 100mm deep bands at the top of the shelter, allowing for ‘wind rock’ to strengthen both root and stem as well as hardening the bark of the tree. 45cm of solid base allows chemical spraying and creates the microclimate, whilst the perforations ventilate the tree and are small enough for the branches not to grow through.

Tubex Combitube is also available in wider diameters for the larger species of trees.

*shelter longevity is dependent on site and weather conditions but is typically 5-7 years

For installation guides, data sheets and case studies on this product please go to: www.tubex.com
‘or’ call us on 01621 874201
Our most popular mesh shelter, the Tubex Shelterguard provides reliable plant protection, enhances growth as well as being designed to blend subtly into the natural environment.

Tubex Shelterguard is designed to last a minimum of 7 years*, boosting the chances of survival and healthy growth through the early stages of the tree’s life. Tubex Shelterguard is unique as it is designed to gain the benefits of enhanced growth through the microclimate of a treeshelter, but also allows the tree to acclimatise to the outside environment through its two-staged degradation process.

Welded to the 12mm square mesh is a very fine polythene film which starts to degrade after approx. 3 growing seasons, gradually exposing the tree to the outside environment allowing ‘wind rock’ to strengthen both root and stem as well as hardening the bark of the tree.

*shelter longevity is dependent on site and weather conditions but is typically 7+ years

<table>
<thead>
<tr>
<th>Products</th>
<th>Shelterguard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights (m)</td>
<td>0.45, 0.6, 0.75, 0.9</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>80 - 110</td>
</tr>
<tr>
<td>Nest</td>
<td>4</td>
</tr>
<tr>
<td>Bundles</td>
<td>100</td>
</tr>
<tr>
<td>Colour</td>
<td>Olive Green</td>
</tr>
<tr>
<td>Ties</td>
<td>1 x 9” 0.45m + 2 x 9” &amp; 0.75m +</td>
</tr>
<tr>
<td>Support</td>
<td>Stake</td>
</tr>
</tbody>
</table>

For installation guides, data sheets and case studies on this product please go to:

www.tubex.com
‘or’ call us on 01621 874201
Tubex Treeguard offers reliable plant protection without the microclimate for enhanced growth.

Tubex Treeguard is designed to last a minimum of 7 years*, boosting the chances of survival and healthy growth through the early stages of the tree’s life. Often used for conifers or species that require plenty of air movement, as Treeguard has no polyethylene film—it’s just a pure net. Most suited to windy site conditions where herbicides are not used, users can benefit from Treeguard being designed to blend subtly into the natural environment.

*shelter longevity is dependent on site and weather conditions but is typically 7+ years

<table>
<thead>
<tr>
<th>Products</th>
<th>Treeguard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights (m)</td>
<td>0.45, 0.6, 0.75, 0.9</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>80 - 110</td>
</tr>
<tr>
<td>Nest</td>
<td>4</td>
</tr>
<tr>
<td>Bundles</td>
<td>100</td>
</tr>
<tr>
<td>Colour</td>
<td>Olive Green</td>
</tr>
<tr>
<td>Ties</td>
<td>1 x 9&quot; 0.45m+ 2 x 9&quot; &amp; 0.75m+</td>
</tr>
<tr>
<td>Support</td>
<td>Stake</td>
</tr>
</tbody>
</table>

For installation guides, data sheets and case studies on this product please go to: www.tubex.com ‘or’ call us on 01621 874201
Tubex Ecostart, our economic solution to reliable plant protection and enhanced growth, where the main focus is the initial establishment period.

Tubex Ecostart is designed to last a minimum of 3 years*, boosting the chances of survival and healthy growth through the first initial stages of the tree’s life. Lower UV stabiliser and smaller diameters allows the shelter to breakdown earlier, making it suitable for small slender plants used in hedging and small scale landscaping.

*shelter longevity is dependent on site and weather conditions but is typically 3+ years

For installation guides, data sheets and case studies on this product please go to:

www.tubex.com
‘or’ call us on 01621 874201
Tubex Shrubshelter range is designed to last a minimum of 5 years*, boosting the chances of survival and healthy growth through the early stages of the plant’s life. Tubex Shrubshelters are ideally suited to landscaping projects with mixed planting stock. Shrubshelters are quick and easy to install and remove, also coming in a wider diameter Shrubshelter Plus.

*Shelter longevity is dependent on site and weather conditions but is typically 5-7 years

<table>
<thead>
<tr>
<th>Products</th>
<th>Shrubshelter</th>
<th>Shrubshelter Plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights (m)</td>
<td>0.6, 0.75</td>
<td>0.6, 0.75</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>130 - 160</td>
<td>144 - 200</td>
</tr>
<tr>
<td>Nest</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Bundles</td>
<td>28</td>
<td>35</td>
</tr>
<tr>
<td>Colour</td>
<td>Green</td>
<td>Green</td>
</tr>
<tr>
<td>Ties</td>
<td>2 x 10”</td>
<td>2 x 10”</td>
</tr>
<tr>
<td>Support</td>
<td>Stake</td>
<td>Stake</td>
</tr>
</tbody>
</table>

For installation guides, data sheets and case studies on this product please go to: www.tubex.com
‘or’ call us on 01621 874201
Tubex Mesh range for shrubs are available in two forms. Shelterguard for shrubs incorporates all the benefits of the shelterguard technology, where the shrub can benefit from enhanced growth for the first initial period, then acclimatise to the outside environment through the two stage degradation process. Treeguard for shrubs are suitable on sites where herbicides are not used, and shrubs need plant protection. Both options provide reliable protection, blend into the natural environment and are manufactured with a thicker reinforced top edge to reduce stem abrasion. Tubex Mesh range for shrubs is designed to last a minimum of 7 years*, boosting the chances of survival and healthy growth through the early stages of the plant’s life.

*shelter longevity is dependent on site and weather conditions but is typically 7+ years

<table>
<thead>
<tr>
<th>Products</th>
<th>Shrubshelter Mesh Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heights (m)</td>
<td>0.6</td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td>130 - 160</td>
</tr>
<tr>
<td>Nest</td>
<td>4</td>
</tr>
<tr>
<td>Bundles</td>
<td>60</td>
</tr>
<tr>
<td>Colour</td>
<td>Olive Green, Brown, Black</td>
</tr>
<tr>
<td>Ties</td>
<td>2 x 10”</td>
</tr>
<tr>
<td>Support</td>
<td>Stake</td>
</tr>
</tbody>
</table>

For installation guides, data sheets and case studies on this product please go to: www.tubex.com ‘or’ call us on 01621 874201
Tubex rolls, cut pieces and layflat are suitable alternatives to the mesh guards giving flexibility for the plant species and site conditions.

**Tubex rolls** are available in the Treeguard and Shelterguard options, allowing you to cut to size on site. Once sheets are cut, use a stake, staple gun or ties to install.

<table>
<thead>
<tr>
<th>Product</th>
<th>Mesh size (mm)</th>
<th>Colour</th>
<th>Height (m)</th>
<th>Length (m)</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treeguard</td>
<td>12 x 12</td>
<td>Green, Brown, Black</td>
<td>0.3, 0.45, 0.60, 1.2</td>
<td>50</td>
<td>Stake</td>
</tr>
<tr>
<td>Shelterguard</td>
<td>12 x 12</td>
<td>Green, Brown, Black</td>
<td>0.3, 0.45, 0.60, 1.2</td>
<td>50</td>
<td>Stake</td>
</tr>
<tr>
<td>Sentree 1</td>
<td>37 x 23</td>
<td>Black</td>
<td>0.45</td>
<td>50</td>
<td>Stake</td>
</tr>
<tr>
<td>Sentree 3</td>
<td>45 x 25</td>
<td>Black</td>
<td>1</td>
<td>50</td>
<td>Stake</td>
</tr>
</tbody>
</table>

**Tubex cut pieces** are available in the Treeguard and Shelterguard options, eliminating the hassle of cutting the sheets onsite. Use a stake, staple gun or ties to install.

<table>
<thead>
<tr>
<th>Product</th>
<th>Height (m)</th>
<th>Diameter (cm)</th>
<th>Colour</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelterguard &amp; Treeguard cut pieces</td>
<td>0.6</td>
<td>9</td>
<td>Green</td>
<td>Stake</td>
</tr>
<tr>
<td></td>
<td>0.6</td>
<td>14</td>
<td>Green</td>
<td>Stake</td>
</tr>
<tr>
<td></td>
<td>0.6</td>
<td>20</td>
<td>Green</td>
<td>Stake</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>20</td>
<td>Green</td>
<td>Stake</td>
</tr>
</tbody>
</table>

**Tubex layflat mesh** is available in a fine mesh or standard mesh, can be stored flat and formed into a tube shape before installation. Layflat is to be secured using two forms of support.

<table>
<thead>
<tr>
<th>Product</th>
<th>Height (m)</th>
<th>Diameter (cm)</th>
<th>Colour</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Mesh</td>
<td>0.6, 1.2</td>
<td>15, 20</td>
<td>Green</td>
<td>2 x canes or stake &amp; cane</td>
</tr>
<tr>
<td>Fine Mesh</td>
<td>0.6</td>
<td>11</td>
<td>Black</td>
<td>2 x canes</td>
</tr>
</tbody>
</table>

For installation guides, data sheets and case studies on these products please go to:

[www.tubex.com](http://www.tubex.com)

‘or’ call us on 01621 874201
Vole/Strimmer guards are for basic protection for those trees that would normally die from vole attacks or careless use of a strimmer. Single wall for rigidity and wrapped to allow the guard to expand as the tree grows, the voleguard is an economic solution for protection against these hazards.

Arbortech guards can also be used to deflect strimmers and come flat packed, to be assembled on site.

For installation guides, data sheets and case studies on these products please go to:

www.tubex.com
‘or’ call us on 01621 874201

SPIRALS
Spirals are our cost effective solution to plant protection and are mostly used in hedging. Through the careful manufacturing process we have been able to design a spiral with a generous overlap, ensuring the maximum plant protection from chemical spraying and animal browsing. Spirals are curled around whips and will expand as the plant grows, available in clear or green tint.

For full spiral range availability, please go to www.tubex.com

EASYWRAPS
Tubex Easywrap is a great alternative to the spiral that provides reliable plant protection as well as enhanced growth through a microclimate. Easywrap is slipped over small whips and will expand as the plant grows, retaining its shape and making it easier to remove. New to this season is the 20cm Easywrap ‘heavy’, an alternative to the brown voleguard.

<table>
<thead>
<tr>
<th>Product</th>
<th>Height (m)</th>
<th>Diameter (mm)</th>
<th>Nest</th>
<th>Bundle</th>
<th>Colour</th>
<th>Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>easywrap</td>
<td>0.6</td>
<td>50 - 65</td>
<td>2</td>
<td>150</td>
<td>Light Green</td>
<td>Cane</td>
</tr>
<tr>
<td></td>
<td>0.75</td>
<td>50 - 65</td>
<td>2</td>
<td>150</td>
<td>Light Green</td>
<td>Cane</td>
</tr>
</tbody>
</table>

VOLE/STRIMMER GUARDS
Vole/Strimmer guards are for basic protection for those trees that would normally die from vole attacks or careless use of a strimmer. Single wall for rigidity and wrapped to allow the guard to expand as the tree grows, the voleguard is an economic solution for protection against these hazards. Arbortech guards can also be used to deflect strimmers and come flat packed, to be assembled on site.

<table>
<thead>
<tr>
<th>Product</th>
<th>Height (cm)</th>
<th>Diameter (cm)</th>
<th>Nest</th>
<th>Bundle</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voleguard</td>
<td>20</td>
<td>4</td>
<td>3</td>
<td>288</td>
<td>Brown</td>
</tr>
<tr>
<td>Arbortech</td>
<td>22</td>
<td>15</td>
<td>Flat</td>
<td>60</td>
<td>Black</td>
</tr>
</tbody>
</table>
Weed control around newly planted trees and shrubs is vital to reduce moisture stress and competition. Although herbicides can provide weed-free conditions, mulching with sheet materials also promotes both survival and growth by restricting water loss and increasing soil temperature.

SQUARES, TREESPATS AND ROLLS
We offer mulching in 3 different forms; squares of material with slits cut in the middle enabling them to be placed over the top of small plants. Treespats are a patented design with a sewn overlapped section running from the middle to one edge, making them easier to fit. Rolls gives you flexibility and are ideal for laying as a sheet along hedgerows, around new planting, in horticultural settings, under gravel paths etc.

* For full mulch range availability, please go to www.tubex.com

PHOTODEGRADABLE MATERIAL
Polythene - Non permeable, low cost mulching, 3 year lifespan.
Spun-bonded Polypropylene - permeable, with non fraying edges, 5 year life span.
Woven Polypropylene - best photodegradable mulch we have. Stronger, easier to peg and permeable. Lasts 7 years.

BIODEGRADABLE MATERIAL
Jute Hessian - mix of recycled jute and cashmere hair, needled onto a hessian backing. Permeable and lasts 2 - 3 seasons.
Hybrid Jute - mixture of recycled jute and cashmere hair, needled onto a polythene backing. Permeable and lasts 3 seasons.
PLA, non woven - mixture of biofibres (polylactic acid) and hemp. Permeable and lasts 4 years.

For installation guides, data sheets and case studies on these products please go to:

www.tubex.com
‘or’ call us on 01621 874201

* Mulching should be installed using anchoring pegs, pg 20
STAKES & STAKE DRIVERS

Stakes are available in a wide range of sizes. All stakes are four way pointed, and are sourced from well managed UK, European and Baltic forests. Our stakes are treated to BS8417:2011 and are available to buy with FSC accreditations.

It is important to install stakes properly to ensure minimal damage and longevity of the stake. We recommend using a stake driver where possible. Where ground conditions are difficult create a pilot hole using a steel pole.

*Please contact Tubex for the full size range of stakes available.

CANES

Bamboo canes are stocked in large quantities of varying sizes, all harvested from well managed, naturally regenerating forests in China. Canes are graded by the traditional weight system (number of pounds weight per hundred canes).

*Please contact Tubex for the size and weight range available.

CABLE TIES

Cable ties are available for those shelters that do not come already pre-fitted with them. Tie sets are available for the mesh rolls and cut pieces as well as releasable and non-releasable ties if you require some extras.

Sizes range in both releasable and non releasable, however the main sizes are 8, 9 and 10 inches.

For installation guides, data sheets and case studies on these products please go to:

www.tubex.com
‘or’ call us on 01621 874201
DEER FENCING
Tubex Deer Fencing is easy to install and provides a semi-permanent barrier against deer access to plantations, or against livestock damage to hedges. To provide extra strength use a high tensile wire at the top and clip the fencing onto this wire. Available in 100m x 1.8m rolls, with a mesh size of 5cm x 5cm. Made from lightweight black polypropylene (80g/m²) and designed to last at least 7 years.

STAPLE & STAPLE GUN
Ideal for attaching mesh to timber stakes. Staple gun = Arrow T - 2025 Staples (5000 per box) 11mm

ANCHORING PEGS
Anchoring pegs are used to peg down mulching and are available in different materials. The steel peg is ideal for hard, stony ground and the plastic barbed peg is popular in all other conditions as it offers better grip. Our biodegradable plastic peg is ideal for use with the biodegradable mulch, and it has been formulated to last at least 7 years, enabling it to also be used with photodegradable materials. We also offer wooden pegs.

The number of anchoring pegs needed per mat depends on the size of the mulch mat and the exposure of the site. If anchoring pegs are the only means of anchoring, we recommend four for the standard square, five for the standard treespat, eight for the large square and nine for the large treespat. We would recommend using a peg every 1/2 metre on mulching sheets.

For installation guides, data sheets and case studies on these products please go to:

www.tubex.com
‘or’ call us on 01621 874201
TUBEX

ANCILLARY PRODUCTS

TREE TIES

Buckle ties and spacers are manufactured out of a soft, flexible recycled plastic. They are sold complete with one spacer and are easily adjusted and will stretch with growth.

Supersoft ties are moulded from soft plastic and form into a figure of eight. They will stretch as the tree grows.

Interlock ties are small ties which form a figure of eight and thread back through themselves.

<table>
<thead>
<tr>
<th>Product</th>
<th>Length (cm)</th>
<th>Width (cm)</th>
<th>Colour</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buckle ties</td>
<td>38, 45, 60</td>
<td>2.5</td>
<td>Black</td>
<td>Recycled, flexible PVC</td>
</tr>
<tr>
<td>Supersoft ties</td>
<td>38, 45, 60</td>
<td>2.2</td>
<td>Black</td>
<td>Flexible PVC</td>
</tr>
<tr>
<td>Interlock ties</td>
<td>20</td>
<td>2.2</td>
<td>Black</td>
<td>HDPE</td>
</tr>
</tbody>
</table>

TREE STRAPPING

Buckle strapping is made from soft, flexible recycled plastic. Buying on the roll offers the convenience of cutting to any size.

Nail-on strap is the same as buckle strapping, but with pre-punched holes, reducing the chance of splitting when the material is nailed to a stake (this is most likely to occur in cold weather).

ANCORFIX

Tubex Ancorfix is a rubber tie for staking or securing. It is suitable for many applications as it is strong, has high elasticity allowing the tie to expand, and lasts up to 4 years. Ancorfix is easy to install by simply wrapping the product around the surface area and pulling it through itself and around the ‘anchor’ part of the product.

We recommend using Ancorfix around a Tubex easywrap to prevent the wrap from being forced open in windy conditions.

For installation guides, data sheets and case studies on these products please go to:

www.tubex.com
‘or’ call us on 01621 874201
Tubex, a fiberweb business, is just just one of the product offerings of Fiberweb Geosynthetics.

For more information on the product ranges from Fiberweb, please call us on 01621 874200, or follow the web links below.

www.tubex.com
Product information, market sectors, technical data, installation guidelines, case studies and online shop

www.terram.com
Geosynthetics product range of geotextiles, geocells, geocomposites, geonets, grass reinforcement meshes and porous paving solutions

www.boddingtons-ltd.com
Online shop for plastic mesh and tape products for gardening, construction, industrial and horticultural markets

www.fiberweb.com
Fiberweb plc global site delivering the next answer in the intelligent application of materials technology
A leader in material technology applications

By intelligently applying our high-performance fibre technology we are helping industry solve its most complex material challenges, and providing our customers with the answers they will need tomorrow.