



### **NexGen Tree Shelter** Introduction







#### 100% biodegradable protection for young trees, nurturing healthy growth, leaving only a positive environmental legacy.

NexGen tree shelters can help you replace the use of plastic tree shelters and nylon cable ties with a viable, environmentally friendly alternative.

The man behind the innovation is Gary Hurlstone, whose father Graham invented the Tubex Tree Shelter in the mid 1980's. Gary took his father's 35 year old design and set out to deliver a range of protection that performs at least as well, whilst being environmentally friendly and cost effective.

The tree shelters are made from a special mix of British wool, a biodegradable polyol (made from ethically sourced cashew nutshell liquid and castor oil), and an innovative biodegradable custom polymer.



At its heart is a simple concept that has taken four years of extensive research and development, working with foresters, landowners and industry experts, to deliver the next generation in tree shelters.

Scientifically proven as 100% biodegradable this is a tree shelter that delivers the perfect environment for young tree plants to thrive in, without harming the environment.

### **Benefits**

- Protects from browsing animals and creates a microclimate to promote healthy growth
- Easy installation with pre-fitted releasable metal ties
- 100% biodegradable no need for collection & recycling

#### Installation

Plant bare root or cell grown plant and insert stake next to plant. Install tube over plant, gently pushing into ground and tighten pre-fitted metal tie(s) around stake. See installation diagrams (pg 4) for more information.

Dimensions	NexGen Biodegradable Tree Shelter					Material	For All Sizes	
Height m	0.6	0.75	1.2	1.5	1.8	Tube	British wool + biodegradable polyols	
Diameter mm	70-110	70-110	70-110	70-110	70-110	Tie	Metal	
Number of metal ties	1	2	2	2	2	Tube colour	Natural	
Type of ties	Releasable	Releasable	Releasable	Releasable	Releasable	Service life	Minimum 5 years	
Length of metal tie mm (inch)	tbc	tbc	tbc	tbc	tbc	Biodegradable	Yes	
Height of top tie from ground mm	tbc	tbc	tbc	tbc	tbc	End of life	Leave tube and tie in situ	
Height of bottom tie from ground mm	tbc	tbc	tbc	tbc	tbc	Recycling options	Recyclable strapping (cardboard)	
Average weight/tube g	tbc	tbc	tbc	tbc	tbc		Compostable outer bag	
						Recommended support	Stake	
Packaging		NexGen	Biodegradable Tre	e Shelter	Recommended tools	Mallet (for knocking in stakes) Ratchet twist tying tool (for tying metal ties) For beating up:		
Nest	5	5	5	5	5		Peg puller or screwdriver (to undo and	
Bundle	50	50	50	50	50		re twist metal tie)	
Bag or strap banded	Recyclable strap(s) & compostable							
	bag	bag	bag	bag	bag			

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## **NexGen Tree Shelter** Features & Benefits

### **Plant Welfare**



Animal protection Protects young plants from bark-stripping and browsing animals.



**Micro-environment** Ideal light transparency and spectrum to support photosynthesis and photomorphogenesis (plant form).



Wind protection Delivers wind break effect, protecting plants on exposed sites.

**Reduced abrasion^** 

stem abrasion.

Compared to no flare.

the shelter.

Flared rim minimises

Herbicide protection

bottom of the tube to

prevent herbicides and

Tree acclimatisation

Carefully positioned

holes help the young

pesticides getting inside

Ties are 40cm from the



Natural colour The colour changes over time blending into the natural environment with no loss of performance.

Supports biodiversity Over time, mosses and lichens grow on the shelters, supporting a rich biodiversity.

Lifespan

5 years protection

soil & microbes).

Smooth surface

Animals can damage

shelters when used

as a rubbing post.

deters rubbing

independent weathering

certification\* (depending

on location, tree canopy,

Confirmed by



No impact on environment Breaks down as H2O, CO2 and nitrogen, becoming a form of 'bug food'.



pH and ecotoxity neutral Does not change soil pH levels when breaking down.



**100% biodegradable** Because of the materials used, the NexGen range is 100% biodegradable.



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**Strapped and bagged** Bundled using *compostable* bags and *recyclable* strapping, for ease of transport and handling.



**Nested** For ease of movement around site.



#### **Corkscrew spine** Delivers strength and longitudinal rigidity, meaning it can be pushed into the soil, discouraging burrowing animals.



Releasable metal tie Quick fastening with a ratchet tie twister tool, the metal ties will degrade over time and can be untwisted for beating up.



**No removal needed** Save money – no collection or recycling needed.

\* "After extensive testing Impact Solutions can confirm that the NexGen unique combination of materials will biodegrade. At around 5 years the tree shelters will start to break down resulting in neutral pH and ecotoxicity, and will become food for microorganisms."

Steven Burns Impact Solutions, Scotland

tree acclimatise and allow air to circulate.

Auto tree release The shelter biodegrades to allow the tree to break free, avoiding strangulation.

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## NexGen Tree Shelter Range Choices



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**Diameter Types** 

Tubes are nested (one inside the other), to save space and time when moving plant protection around a site.

Diameters describe the range of diameters you will find in a nest of tubes, from the smallest to the largest.

NexGen Tree Shelter tube diameters range from 70mm up to 110mm in a nest and are suitable for slim to medium plants (ie not shrubs).





# **NexGen Tree Shelter** Installation

### PLANT

Planting bare root or cell grown plants is a straightforward task, however, do not attempt to plant if the ground is frozen or waterlogged. Find a suitable position for your plants, bearing in mind future growth and potential height and spread at maturity.

Bare rooted or cell grown plants can be 'notch' planted in 3 steps (Fig A):

- Begin by inserting the blade of a spade into the ground. Push the 1. spade handle away from you and then bring it back towards you. Once you remove the spade, you will see that you have created a cavity or 'notch' in the ground.
- 2. For bare root - place the plant roots within the cavity and shake to ensure that all of the roots are in the cavity and pointing downwards. For cell grown - place the cell gently into the ground. Ensure the top of the plug (the soil surrounding the roots) is positioned at 2 to 4cm below the surface to avoid drying out.
- Fill the cavity with soil. Use your heel to firm the soil around the plant 3. to remove any air pockets. Once planted, give them a good water if practical to do so.

You are now ready to install your support and protection.

- 1. After planting, position the tube on the windward side if there are strong prevailing winds (Fig B), and the stake between 2cm to 5cm from the base of the plant.
- 2. Hammer the stake into the ground with a stake driver or mallet (ideally knocking 1/3 of its height into the ground). Ensure it is vertical (particularly important on sloping ground). The top of the stake should be below the top rim of the shelter and above the top tie wrap.

PROTECT

SUPPORT

- Position the shelter over the tree (Fig C), making sure not to damage any lateral 1. branches, positioning the releasable metal ties either side of the stake.
- Push the shelter into the ground 1cm to 2cm. This forms a safe herbicide barrier 2. and deters vermin from burrowing under the shelter.
- Use a ratchet tie twister, screwdriver or peg puller tool to twist tie the metal tie 3. around the stake, ensuring the shelter is firmly positioned. Note - if using a ratchet twist tie tool - the metal tie only requires two short pulls to be tied.
- 4. Bend the metal tie downwards for neatness and to deter rubbing by deer or sheep.



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This ensures there is support high enough up the guard after the stake has been hammered into the ground.

should be at least 15cm taller than the height of the guard. For example, for a 60cm guard.

Fig A



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Tip: Stand the shelter next to the plant whilst you are knocking in the stake to see how far to insert it.

Tip: Gently gather lateral branches before installing protection to ensure no damage.

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Fig C



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