

# Industry Leaders Since 1969.

PRICE BEAT  
GUARANTEE

**If you happen to find a lower quote, we'll beat it!**

At Northern Polytunnels we pride ourselves in supplying the highest quality products at extremely competitive prices. If you like our products and would like to do business with our company then why not give us a chance to beat any other quotation you have.

**If you have a lower quote for a comparable product – we'll beat it!**

All orders are subject to our terms and conditions of sale.  
Our terms and conditions can be viewed online at [www.northernpolytunnels.co.uk/terms-conditions-home](http://www.northernpolytunnels.co.uk/terms-conditions-home)

WELCOME



**Introduction****1 - 4****Polytunnels****5 - 32****Polytunnel Covers****33 - 40****Netted Structures, Pathways and Benching****41 - 48****Netting, Polythene and Fabrics****49 - 58****Heating, Ventilation and Climate****59 - 74****Irrigation and Water Storage****75- 112****Parts, Fittings and Sundries****113 - 128****Index****129 -130****Payment Options****132**

Visit our website [www.northernpolytunnels.co.uk](http://www.northernpolytunnels.co.uk) for exclusive offers and latest products.





**Commercial Horticulture**



**Agriculture**



**Soft Fruit**



**Industrial**



For more details of our other ranges please call 01282 873120 for a brochure.



# Sectors We Work In



**Hobby Gardening**



**Bespoke Structures**



**Aviation and Leisure**



**Garden Centres**



## Why Buy A Northern Polytunnel?



**ArmourGuard® endured the equivalent of 100 years' exposure to the harshest elements without undue deterioration.**

### **ArmourGuard® Steel**

Our framework is produced from 50mm or 60mm pre-galvanised steel tube (depending on width). All tubular steel components are ArmourGuard® treated, both inside and out. ArmourGuard® is NP Structure's newly developed high-endurance galvanising treatment, giving extraordinary levels of corrosion resistance. ArmourGuard® offers up to 20 times the corrosion resistance of traditional zinc galvanising thanks to the revolutionary combination of zinc, aluminium and magnesium. ArmourGuard® is designed not just to survive in the most hostile environments but also to offer extreme longevity. In exhaustive tests carried out by Rotech Laboratories, one of the UK's leading test houses, ArmourGuard® endured the equivalent of 100 years' exposure to the harshest elements without undue deterioration.

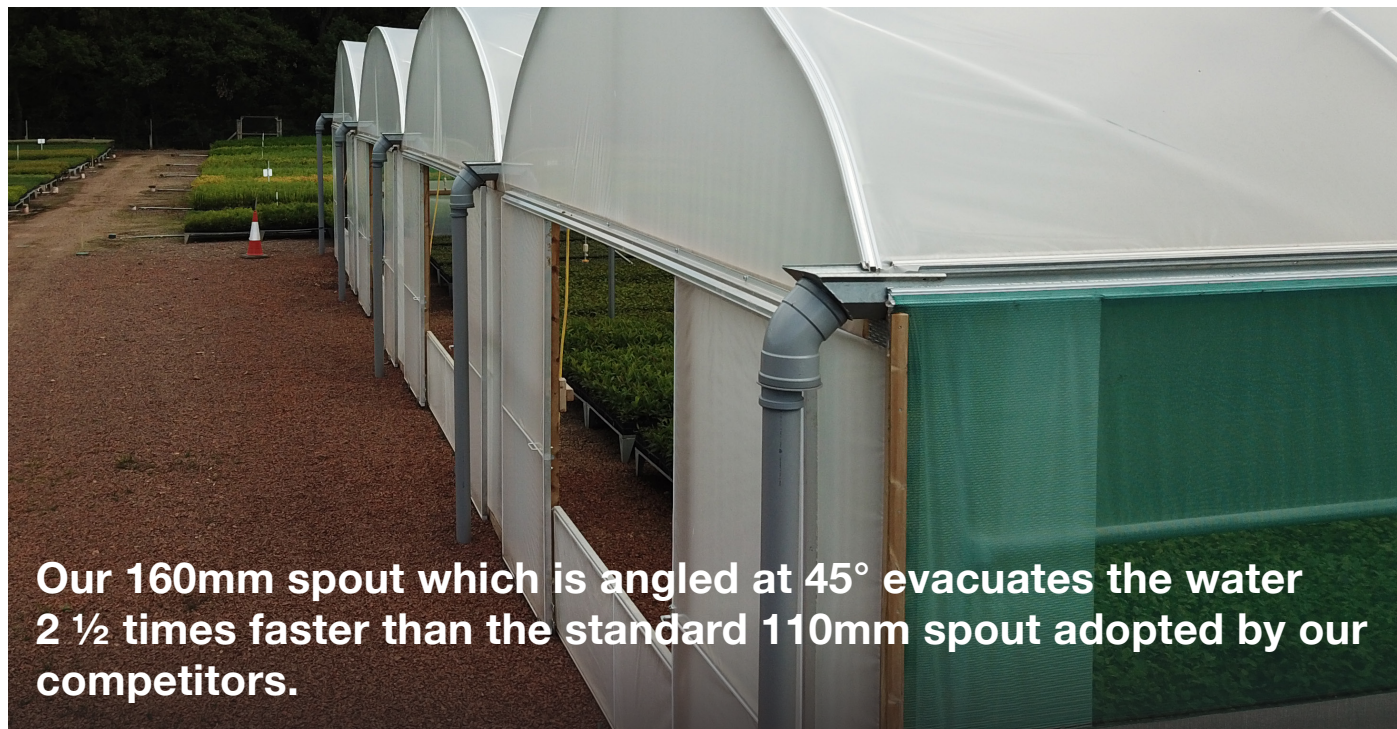
### **Cover Tensioning System**

All of our foundation options incorporate our unique polythene cover tensioning system, whereby the hoops (steel arches) sleeve completely over the whole of the foundation poles. This allows each hoop to be later raised individually and locked in to position after the polythene sheet has been attached. This stretches the polythene cover to create a drum-skin finish. The tighter the cover the longer it will last. Beware, some manufactures use foundation poles which simply slot on to the bottom of the hoop, rather like a tent pole. This slot-together design does not provide anything close to the same degree of tensioning.



**This allows each hoop to be later raised individually and locked in to position after the polythene sheet has been attached. This stretches the polythene cover to create a drum-skin finish. The tighter the cover the longer it will last.**





**Our 160mm spout which is angled at 45° evacuates the water 2 ½ times faster than the standard 110mm spout adopted by our competitors.**

#### **High Volume Gutters**

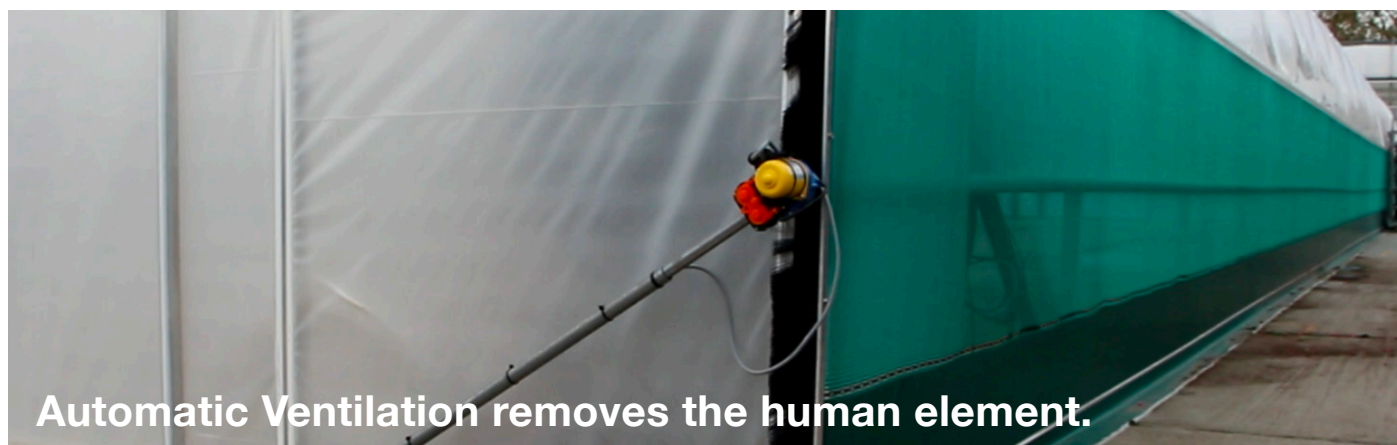
It is widely recognised that most polytunnels are fitted with inadequate gutters. That's why we supply gutters which are 35% wider and twice as deep as those of other manufactures. Our 160mm spout which is angled at 45° evacuates the water 2 ½ times faster than the standard 110mm spout adopted by our competitors.

#### **Heavy Duty Foundation Poles**

The wall thickness of our foundation poles (ground tubes) is 2.5mm. Most other polytunnel manufacturers use the same gauge steel which they use for their hoops, which is only 1.5mm, and in our option is totally inadequate. It's the foundations which are most prone to oxidisation, but also where additional strength is required, which is why we 'beef' ours up.

#### **Superior Brackets & Fittings**

All of our brackets and fittings have been designed and manufactured inhouse. We do this because we believe that our bespoke fittings have superior strength and simplify the construction process. Our commercial grade fittings incorporate M10 (10mm) bolts, whereas some other companies only use M8 (8mm). Of course we can buy cheap, light-weight fittings from the far-east like some other manufacturers, but the quality just isn't the same.



**Automatic Ventilation removes the human element.**

#### **Automatic Ventilation**

24vDC motorised roll-up side vents and 220vAC roof-mounted exhaust fans – all fully automated to remove the 'human' element (optional).

#### **Free Delivery Service**

We operate our own delivery service for commercial structures which includes two articulated wagon/trailer units, a 12 tonne flat bed and a 1.5 tonne pick-up. This allows us the freedom to schedule our wagon runs to suit our customers without the need to charge.

#### **50 Years Experience**

We have been designing and manufacturing poytunnels for 50 years. Our dedicated sales team offer excellent customer service and are available for product and construction advice Monday-Friday 8:30am - 5pm.

**Price Promise – If you get a cheaper quote elsewhere, we'll beat it (based on a like for like basis).**





**UNIQUE DESIGN FEATURES INCLUDE A COVER TENSIONING SYSTEM, ENSURING A DRUM-SKIN TIGHT FINISH.**



## SINGLE SPAN POLYTUNNELS

Our standard-height single span polytunnels offer the best in terms of strength and value. The lower profile has the least wind resistance, making them ideal in exposed locations. This has been our standard single-span polytunnel profile for almost 50 years, and continues to be a firm favourite.

### Widths

Available in five widths: **5.5m (18ft); 6.4m (21ft); 7.3m (24ft); 8.2m (27ft) and 9.1m (30ft)**

Even though the dimensions of the basic framework have changed little over the years, many other improvements have been made. We now offer

aluminium end frames & side rails as a durable alternative to pressure-treated timber. These will never need to be replaced and leave a neat, pleat-free finish on the ends (see page 17-18 for more details).

### Foundations

If your ground is suitable you may want to consider using screw anchors. These are only available for single span polytunnels. Instead of digging a series of holes and concreting the foundation poles in position, you simply screw them in, either by hand for small polytunnels or by machine for large polytunnels (see page 25 for more info).

**Please Note: All prices exclude VAT**



# SINGLE SPAN POLYTUNNELS



## OUTSTANDING STRENGTH

In-house structural engineers ensure that every polytunnel that leaves us is within our desired strength range. 50/60mm ArmourGuard steep hoops, with 1.5mm wall thickness ensures our polytunnel framework stands up to the brunt of the British weather. Heavy-gauge galvanised steel foundation tubes secure the structure to the ground using a range of methods. Optional brace bars add further strength if you are siting your polytunnel in an exposed location. Northern Polytunnels are renowned for their strength which is why you can expect them in the most hostile environments, from the Shetlands to The Falklands. Unique design features include a cover tensioning system, ensuring a drum-skin tight finish.

## CONFIGURABLE OPTIONS

Different crops and growing systems require different solutions, which is why we offer a range of options to suit your individual requirements and budget:

- Choice of polythene covers (see pages 33-39).
- Foundations (see pages 27).
- Timber or aluminium end frames & side rails (see pages 17-18).
- Ventilation (see pages 23-24).
- Door & louvres (see pages 19-20).

## TURN-KEY SOLUTIONS

We've been in the business almost 50 years and know you haven't time to source everything you need from a dozen different suppliers, which is why we have in-house specialists for irrigation, heating, ventilation etc. ventilation etc. We can specify any of the following equipment and tailor it to your specific polytunnel, saving you money at the same time.

- |   |   |
|---|---|
| • Irrigation and water collection                 | • Groundcover/weed control fabric           |
| • Danish trolley tracking and rubber pathways     | • Heaters – oil, LPG, mains gas or electric |
| • Fans – air circulation and heat extraction fans | • Insulation – twin skinning                |
| • Steel or aluminium benching                     |   |

**Full construction service available - call 01282 873120 for a quote.**





**0.65m HIGHER THAN STANDARD,  
GIVING AN ADDITIONAL 25% AIR  
VOLUME.**



## HIGH-SIDED SINGLE SPAN POLYTUNNELS

Our extra-high single span polytunnels are 0.65m higher than our standard polytunnels creating an extra 25% volume. This reduces the rate at which the temperature increases, creating a more harmonised environment, whilst also allowing greater manoeuvrability with equipment and machinery. This model is also favoured by producers and suppliers of large specimen plants.

### Ventilation

Good ventilation in a polytunnel is key, in the past this has sometimes been tricky to achieve. Nearly all of our polytunnels are supplied with side vents which incorporate a roll-up screen, but these still have to be manually operated. Where an extra level of sophistication is required we control the screens automatically. Not only is the temperature controlled precisely, but we also remove the human element, thereby controlling the temperature 24/7 based on actual temperatures, not perceived temperatures.

**These advancements further close the technological gap between modern glasshouses and polytunnels.**

Full construction service available - call 01282 873120 for a quote.

**Please Note: All prices exclude VAT**



# HIGH-SIDED POLYTUNNELS



## FRAMEWORK

Available in five widths: **5.5m (18ft); 6.4m (21ft); 7.3m (24ft); 8.2m (27ft) and 9.1m (30ft)**. All tubular steel components are ArmourGuard™ treated giving up to 4 times the corrosion resistance of traditional pre-galvanised steel tube (see page 5).

We now offer aluminium end frames & side rails as a durable alternative to pressure-treated timber. These will never need to be replaced and leave a neat, pleat free finish on the ends (see page 17-18 for more details).

## CONFIGURABLE OPTIONS

Different crops and growing systems require different solutions, which is why we offer a range of options to suit your individual requirements and budget:

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## TURN-KEY SOLUTIONS

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| • Irrigation and water collection                 | • Groundcover/weed control fabric           |
| • Danish trolley tracking and rubber pathways     | • Heaters – oil, LPG, mains gas or electric |
| • Fans – air circulation and heat extraction fans | • Insulation – twin skinning                |
| • Steel or aluminium benching                     |   |

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# IDEAL FOR RETAIL NURSERIES AND GARDEN CENTRES.



## POLYTUNNEL CANOPIES

Based on the traditional multi-span structure, traditional canopies incorporate wide gutters on support posts fitted to both sides of the framework.

Three standard widths are available: **6.4m (21ft)**, **8m (26ft)** and **9.1m (30ft)**.

Our unique Ali-trap polythene fixing system allows the main cover to be fastened to the end hoops. A separate piece of polythene is used to clad the end 'D' panels leaving a neat, flat finish.

- Aluminium lintels.  
(no timber is used on this structure).
- Available in any length.
- Gutters to both sides as standard.
- Clad with white polythene.  
(other options available).
- Easy to install – minimum disruption.
- Ideal for covered work areas,  
loading bays, dry storage etc.

Full construction service available - call 01282 873120 for a quote.

Please Note: All prices exclude VAT



# TRADITIONAL CANOPIES



## FRAMEWORK

The bays are available in three standard widths: **6.4m (21ft); 8m (26ft) and 9.1m (30ft)**. All tubular steel components are ArmourGuard™ treated giving up to 4 times the corrosion resistance of traditional pre-galvanised steel tube (see page 5).

## CONFIGURABLE OPTIONS

These canopies have been hugely popular with garden centres, retail nurseries and general storage, which is why we offer a range of options to suit your specifications:

- Choice of polythene and PVC covers
- Unlimited lengths
- Unlimited number of bays

**PLEASE NOTE:** Traditional canopies do **NOT** comply to building regulations.



## TURN-KEY SOLUTIONS

We've been in the business almost 50 years and know you haven't time to source everything you need from a dozen different suppliers, which is why we have in-house specialists for irrigation, ventilation etc. We can specify any of the following equipment and tailor it to your specific polytunnel, saving you money at the same time.

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**MULTI-SPAN POLYTUNNELS  
TAKE LONGER TO WARM UP  
IN SUMMER, CREATING A  
CONSISTANT, HARMONISED  
GROWING ENVIRONMENT.**



## MULTI-SPAN POLYTUNNELS

Multi-span polytunnels are higher than standard single-span polytunnels as extra height is required to allow clearance under the valley gutters – typically 2.2m to the underside of the gutter. Optional side gutters are a common feature, not only for water collection purposes but they increase the height of the sides. This in-turn you can increase it to 2.2m when side gutters are fitted.

### Benefits include:

- Less foundations to dig and less concrete (when compared to the same number of single spans)
- Greater air volume
- Increased height for higher crops and machinery
- Option to collect water from gutters
- Less time wasted moving from tunnel to tunnel
- Slower to warm up - creating a more harmonised environment

Full construction service available - call 01282 873120 for a quote.

Please Note: All prices exclude VAT



# MULTI-SPAN POLYTUNNELS



## FRAMEWORK

The bays are available in three standard widths: **6.4m (21ft)**; **8m (26ft)** and **9.1m (30ft)**. All tubular steel components are ArmourGuard™ treated giving up to 4 times the corrosion resistance of traditional pre-galvanised steel tube (see page 5).

We now offer aluminium end frames & side rails as a durable alternative to pressure-treated timber. These will never need to be replaced and leave a neat, pleat free finish on the ends (see page 17-18 for more details).

## CONFIGURABLE OPTIONS

Different crops and growing systems require different solutions, which is why we offer a range of options to suit your individual requirements and budget:

- Choice of polythene covers (see pages 33-39).
- Foundations (see pages 27).
- Timber or aluminium end frames & side rails (see pages 17-18).
- Ventilation (see pages 23-24).
- Door & louvres (see pages 19-20).

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- |   |   |
|---|---|
| • Irrigation and water collection                 | • Heaters – oil, LPG, mains gas or electric |
| • Danish trolley tracking and rubber pathways     | • Insulation – twin skinning                |
| • Fans – air circulation and heat extraction fans | • Heating & Climate Control                 |
| • Steel or aluminium benching                     |   |
| • Groundcover/weed control fabric                 |   |

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**EXTRA-HIGH MULTI-SPAN  
POLYTUNNELS INCREASE  
THE AIR VOLUME A  
FURTHER 20% COMPARED  
TO STANDARD HEIGHT.**



## EXTRA-HIGH MULTI-SPAN POLYTUNNELS

Our extra high multi-span polytunnels offer all the benefits of our standard multi-spans but take it a step further. Being 0.5m higher, typically 2.7m to the underside of the gutters, they increase the air volume a further 20%. This reduces dramatic temperature fluctuations creating a more harmonised environment. Where side gutters are fitted the height of the side walls are further increased, this greatly increases the ventilation.

Benefits include:

- Greater air volume
- Increased height for higher crops and machinery
- Slower to warm up - creating a more harmonised environment

Full construction service available - call 01282 873120 for a quote.

Please Note: All prices exclude VAT



# EXTRA HIGH MULTI-SPAN POLYTUNNELS



## FRAMEWORK

The bays are available in three standard widths: **6.4m (21ft); 8m (26ft) and 9.1m (30ft)**. All tubular steel components are ArmourGuard™ treated giving up to 4 times the corrosion resistance of traditional pre-galvanised steel tube (see page 5).

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| • Fans – air circulation and heat extraction fans | • Insulation – twin skinning                |
| • Steel or aluminium benching                     | • Heating & Climate Control                 |

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## End Frames



Aluminium end frames with aluminium doors and louvres

End frames can be made from either timber or aluminium box-section. Even though we use 75mm x 75mm (3" x 3") treated timber, it still has a limited life expectancy, approx. 20 years. Aluminium on the other hand is much stronger and will last a lifetime, but costs around 2-3 times the price. Timber is a natural product and as such can be prone to a small amount of warping and twisting over time. This may be a consideration if fitting a large number of doors and louvres.

Whereas polythene is fastened to timber end frames using wooden battens (laths), our aluminium box-section incorporates its own polythene fixing system using an insert to hold the polythene in a pre-formed channel in the aluminium (see page 115 for details).

When supplying aluminium end frames we also attach a curved aluminium rail (complete with polythene fixing clips) over the two end hoops. This allows the main polythene sheet to be attached to the end hoops rather than pulled over the ends and fixed to the end frames. Separate smaller pieces of polythene are then used to clad the ends. Not only do you get a much neater, pleat-free finish to your structure, but any damage to the ends is not damaging the main cover.



Aluminium end frames



Timber end frames with aluminium doors



Timber end frames with aluminium doors and louvres



## Side Rails



Timber base rail and timber mid rail



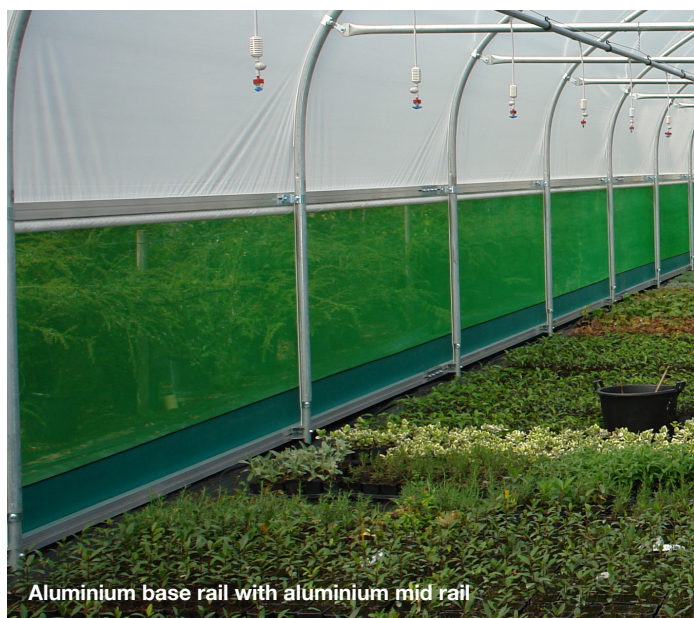
Timber base rail with timber mid rail

Side rails can be made from either timber or aluminium box section. Even though we use 100mm x 50mm (4" x 2") treated timber, it still has a limited life expectancy, approx. 20 years. Aluminium on the other hand is much stronger and will last a lifetime, but costs around 2-3 times the price. Timber is a natural product and as such can be prone to a small amount of warping and twisting over time, yet it still remains the most popular option.

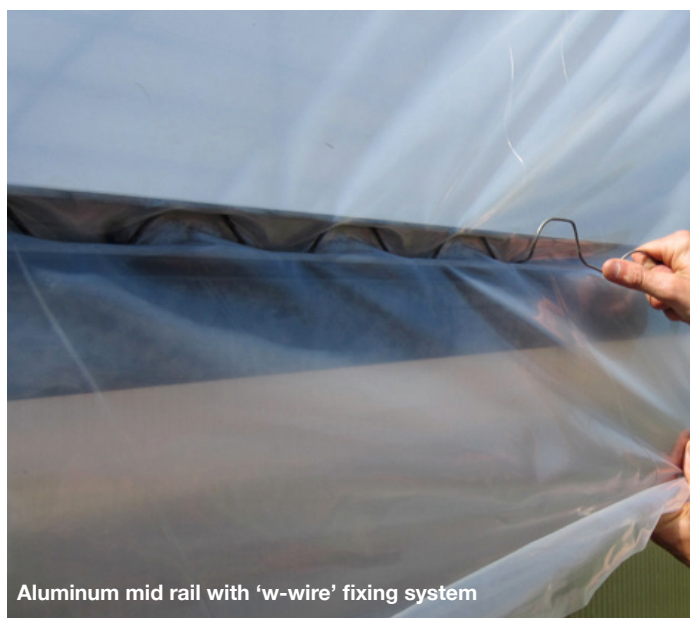
Whereas polythene and netting are fastened to timber side rails using wooden battens (laths), our aluminium box-section side rails have their own polythene fixing system using an insert to hold the polythene in a pre-formed channel in the aluminium (see page 115 for details).

Our Wiggle Wire fixing system gives much more flexibility, as it can be easily unclipped in order to re-adjust the polythene if required. We also supply a simple, low-cost aluminium 'C' rail which can be screwed directly on to timber side rails and end frames, this has all the benefits of this clever fixing system, but without the expense of the aluminium box-section.

Timber side rails can be used in conjunction with aluminium ends. This option gives you all the benefits of the aluminium end frames, but the costs are kept lower by using timber on the sides where it's less prominent.



Aluminium base rail with aluminium mid rail



Aluminium mid rail with 'w-wire' fixing system



# Doors



Double Door Latch



Side Access Door With Timber Frame



Side Access Door With Aluminium Frame



Single Door



Double Doors

Sliding doors can be fitted as a single door or double door, and can be fitted to the end or the side of a structure.

Our Sliding doors have a heavy duty aluminium door track incorporating a rain pelmet. This is supplied in a full, single length for easy and fast fitting. Hinged doors available on request.

Double sliding door sets have a central drop bolt to secure the doors in the closed position. The kit also includes door guides, handles, cladding and all the parts required to make fully operational.

Our standard doors and louvres are manufactured using a structural aluminium box-section extrusion incorporating our unique Ali-Trap polythene fixing system.

Each individual door measures 1.5m (4'11") wide x 2.16m (7') high, Other sizes can be catered for.

**Our doors can be purchased as complete kits for retrospectively fitting to existing polytunnels, call for details.**

### Rabbit Door Barriers

Placed across the doors to prevent access by rabbits. Easily removed when human/machinery entry is required. Aluminium frame with a clear acrylic screen (see page 26).

Description	Approx Price
Standard Single Aluminium Sliding Door Kit	£182.44
Standard Double Aluminium Sliding Door Kit	£371.04
Rabbit Barrier for Double Door (2.82m x 0.8m)	£119.00



# Louvres



The louvres are easily fitted to the ends of our structures. They can be used in conjunction with doors and the configuration can vary, depending on the size of your structure. Our standard louvres have a 3 positional hinge with a simple pull-cord operation. This allows the louvre to be set in the fully open, fully closed or half open position.

## Ventilation Louvres - Pull Cord

Top ventilation louvres fit in the 'D' panel above the doors to create an effective solution for ventilation. Louvres feature our unique 3 positional hinge which locks the louvre in place. This allows the louvre to be set in the fully open position, 2/3 open, 1/3 open or closed.

## Ventilation Louvres - Rack and Pinion

These louvres feature a rack and pinion system for opening, controlled by a gearbox with winding handle. The rack and pinion louvres are fully adjustable, not just limited to the three positions like the pull cord louvres.

Rack and pinion louvres are the most popular choice. For multi-span polytunnels all the end louvres can be linked together for synchronised operation. These can be motorised and fully automated.

**Above door louvre measurement:** 0.79m x 2.12m

**Actual 'opening' size:** 0.8m x 2.15m.



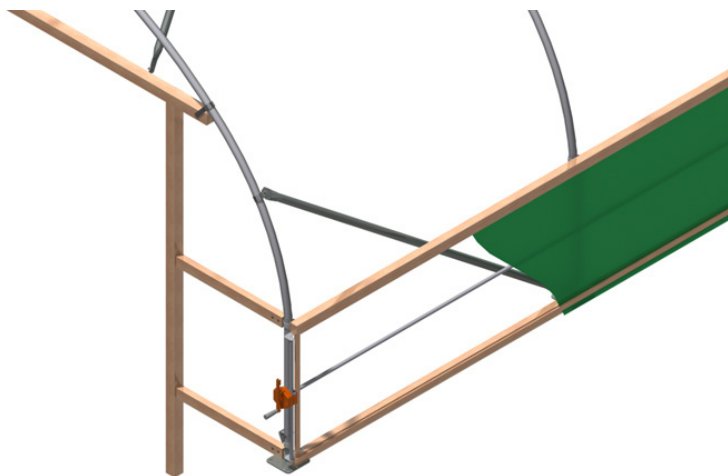
Description	Price From
Pull Cord Louvres	£135.33
Rack and Pinion Louvres	£242.77



# PVC Ventilation Screens

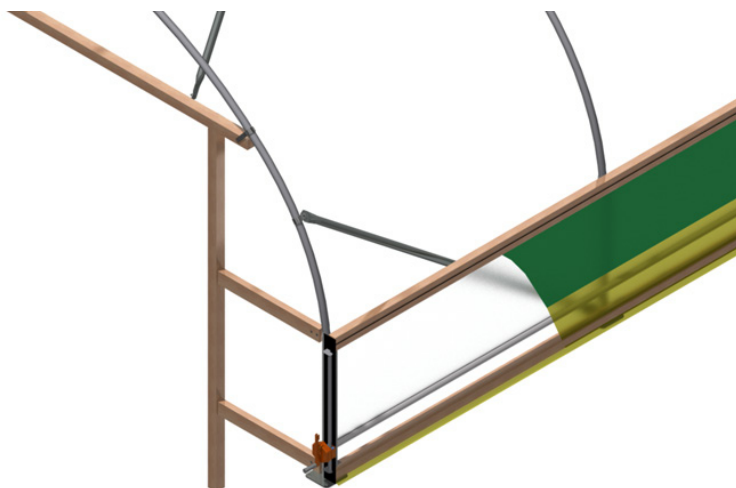


A part of our continual development program we will soon be offering some variations of our current roll-up side vents. The following options offer a solution for every budget and will be available for 2020.



## Basic System

This is our entry level side vent with an externally mounted gearbox to operate the internal roll-up polythene screen. The position of the hand-operated gearbox allows for easy access and operation. This system is available for polytunnels with timber side rails. The polythene screen and exterior netting are battened on to the side rails using wooden laths. The netting does not include a draft-proof skirt.



## Professional System

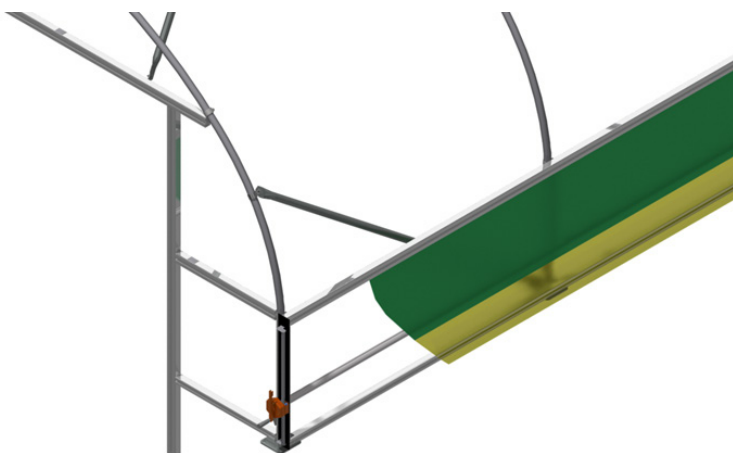
This is our standard professional side vent with an externally mounted gearbox operating the internal roll-up polythene screen. The position of the hand-operated gearbox allows for easy access and operation. This system is available for polytunnels with timber side rails. The polythene screen and exterior netting are battened on to the side rails using wooden laths. The netting comes complete with a solid draft-proof skirt and brush strips are also fitted to the gap where the drive-tube protrudes at the gearbox end.



# PVC Ventilation Screens



## NEW FOR 2020



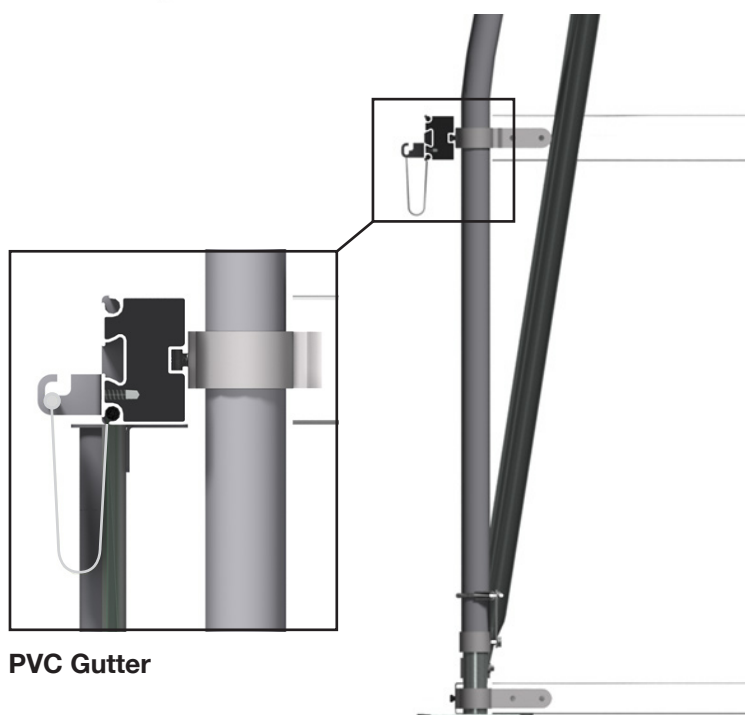
### Superior System

This is our superior side vent with an externally mounted gearbox operating a heavy-duty roll-up PVC screen. The position of the hand-operated gearbox allows for easy access and operation. This system is available for polytunnels with aluminium side rails. The roll-up PVC screen comes with nylon beading along the top and bottom edges which allows it to be quickly installed/replaced. The beading slides along a slot in the aluminium side rail and also in the drive tube in a similar way a caravan awning is attached. The exterior netting is fixed top and bottom using Wiggle Wire. The netting comes complete with a solid draft-proof skirt and brush strips are also fitted to the gap where the drive-tube protrudes at the gearbox end.

### Superior Plus System

This is the same as our superior system with the addition of a gutter. The gutter is manufactured from a PVC-coated fabric, which is attached to the aluminium side rail. This prevents rain run-off from entering the polytunnel through the mesh sides.

**Call our experienced team for details.**



PVC Gutter

**Price Promise – If you get a cheaper quote elsewhere, we'll beat it (based on a like for like basis).**



# Ventilation Screens



Side netting with roll-down screen



Roll-up end screens with net (double drive tubes)



Roll-up end screens without net (double drive tubes)



Side vent/s with anti-insect netting

## Roll-Up Side Ventilation Screens

These provide a neat and reliable side ventilation system. A 50mm diameter aluminium drive tube is operated by a manual gearbox – simply turn the crank handle to lower or raise the screen. An automatic 24vDC motorised option is available, which opens and closes with the flick of a switch. This option is only around £200 extra, but has the added advantage that temperature sensors can be incorporated to give fully automatic operation. Controllers can be supplied which allow incremental operation, where the screens partially open at a user defined set point. If the temperature continues to rise then the screens open a little more, and so on. When the temperature falls below a pre-set temperature, the same 'staged' closing happens. This helps to maintain a constant temperature and stops the screens going up and down like a yo-yo.

## Roll-Up End Ventilation Screens

For maximum ventilation, we offer roll down end screens to allow full ventilation on all four sides. The ends can be netted, or left open to allow access. These too can be fitted with 24vDC motors for automatic operation.

## Double Drive Tube Ventilation Screens

Screens that are fitted with an additional middle drive tube give extra support to the screen, reducing the 'sail' effect. Usually used on structures with extra high sides (above 2.1m) or where faster opening and closing is preferred. This is the default option for multi-span polytunnels with side gutters. The same control options are available as our standard roll-up side screen (above).

Most multi-span polytunnels that have side gutters would be supplied with this option. All single-span polytunnels are normally fitted with a single drive tube.



# Ventilation Screens

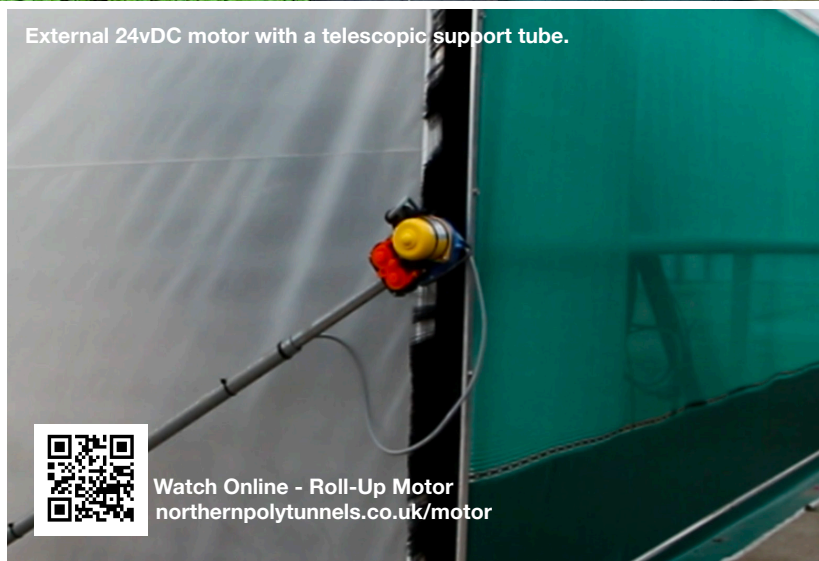


Internal manual gear system.



External manual gearbox

External 24vDC motor with a telescopic support tube.



Watch Online - Roll-Up Motor  
northernpolytunnels.co.uk/motor



Externally mounted  
24vDC motor with vertical support tube

## Manual Gear System (Internal)

Manually operated using the crank handle provided. A single gearbox can operate up to 50m (160ft) of standard screen on a single-span polytunnel. Over this length we simply split the screen in two with a gearbox operating from each end, or both together (back to back) half way along.

For higher sided polytunnels and multi-span tunnels the maximum length for a manual operated single screen is approx. 37m (120ft) before we split the screen in two.

## Manual Gear System (External)

There are several advantages of an externally mounted gear box fitted to your side ventilation system. You don't have to enter the polytunnel in order to operate your vents, and you don't need to allow for an internal pathway in order to access it. These are now becoming the preferred choice, especially for single span polytunnels. See page 127 for manual gearboxes.

## Automatic 24vDC Gear System

Usually mounted externally, on either a 45 degree telescopic arm or on to a vertical support tube with a guide carriage. These are wired to a control panel allowing operation at the flick of a switch. Usually used in conjunction with a thermostat for fully automated operation, which opens and closes in small steps providing a more constant temperature. Can be supplied in kit form for upgrading a manual system. An increasingly popular feature on our multi-span structures and longer single-span tunnels.

See page 61-62 for automatic control systems.



# Polytunnel Roof Fans & Exhaust Fans

AWARD WINNING



Roof Mounted Exhaust Fans



Watch Online - Exhaust Fan  
[northernpolytunnels.co.uk/fan](http://northernpolytunnels.co.uk/fan)

Exhaust Fans For Sides



## Polytunnel Roof Extraction Fans

Our award winning roof fans provide a practical low-cost solution to overcoming excessive heat build-up in polytunnels. They can be incorporated in to a new polytunnel design or retrospectively installed to existing polytunnels. The cowl rises from the pressure of the fan, and falls when operation stops to create a draft-free seal. Quick and easy to install from the inside of your polytunnel without having any detrimental effect to the life of the polytunnel cover. The fan is mounted on to a couple of internal support bars which are fixed to the underside of the polytunnel hoops. Used with a control panel & temperature sensor for automatic operation.

## Exhaust Fans for Ends and Sides

Large volume, belt-driven exhaust fans used in conjunction with air intake louvres. Positioned along the sides or in the ends of our polytunnels where large volumes of stale air needs to be extracted. Fully automated control systems available. PVC covers can be fitted for winter heating.

See page 64 for prices.

Please Note: All prices exclude VAT



# Polytunnel Extras



Rabbit Door Barriers

## Rabbit Door Barriers

Aluminium frame clad with a heavy-duty translucent polypropylene. Made to fit inside a 10ft doorway. Barrier measures 2.82m x 0.8m and is supplied with latches. Easily removed for machinery access, and low enough to stride over. Supplied in kit form for self-assembly. The aluminium frame can be cut down (before assembly) to suit narrower doorways.



Rabbit Door Barriers



Hanging Basket Rails



Hanging Basket Rails

## Hanging Basket Rails

Designed to safely hold any number of baskets, whatever their size. A 30m (100ft) long polytunnel could comfortably accommodate 60 x 14" baskets on a single run, potentially weighing up to 1 tonne. Supporting your baskets on the polytunnel legs is the safest place to put them. Kit includes galvanised brackets, 50mm galvanised steel tube, zinc-plated 'S' hooks and a drip irrigation system. Supplied as an option on our new polytunnels or easily added to existing ones.

- Easily added to existing tunnels
- No risk of collapse or snapped wires
- Baskets do not interfere with your working area
- Irrigation pipe is safely stowed on the underside of the support bar



# Foundation Options



Traditional Foundation Tube



Screw Anchor



Base Plate

There are several methods of securing your polytunnel to the ground. All of our foundation tube options use the same heavy-duty, thick walled (2.5mm), galvanised steel tube. All our foundation options also incorporate our unique polythene cover tensioning system, whereby the hoop sleeves over the foundation tube. This allows each hoop to be raised and locked in position after the cover has been fitted in order to achieve a drum-skin finish. Beware, some manufacturers use the same thin walled (1.5mm) steel tube which the hoops are produced from, which simply slot in to the bottom of the hoop – rather like a tent pole. We consider this grade of tube to be totally inadequate, and the slot-together design does not allow for the cover to be tensioned sufficiently.

## Traditional Concreting method

This involves digging a series of holes (approx. 50 x 50 x 50cm) and concreting them in to the ground with approx. half of the foundation tube protruding above ground level. It's the weight of the concrete which provides the basis for the anchorage. Although this is the most popular option you need to consider the cost of the concrete and the work/machinery involved. Single foundation tubes are used for single span polytunnels, with single, double and triple foundation tubes being used with our multi-span polytunnels (see top left-hand image).

## Screw Anchors

Fast gaining popularity, especially where access for machinery and wet-mix concrete deliveries prohibit the traditional concreting method. Screw anchors offer great anchorage where favourable ground conditions apply. Heavy clay is ideal, although most soil types are suitable. Peat soils do **NOT** generally provide suitable anchorage for screw anchors. Ground with a high rubble/stone content is best avoided, although individual screw anchors can still be concreted in position where large stones have caused an obstruction and required excavation. Screw anchors are more expensive than traditional foundations tubes but often work out cheaper in the long run due to lower installation costs. For smaller polytunnels the screw anchors can be manually screwed by two people using a long crow bar, each one taking approx. 5-10 mins. For larger polytunnels a hydraulic drill bit fitted to a mini digger would be the preferred option.

**Screw anchors are only available as single ground tubes and thus not available for multi-span polytunnels.**

## Base Plates

Where a polytunnel is being erected on a concrete base we offer our 'base plate' foundation option. These are short foundation tubes which are welded on to a thick steel plate. The plate has four holes to accommodate the sleeve anchors with which to secure the foundation tubes. Sleeve anchors are provided. This option is suitable for both single span and multi-span polytunnels (see top right-hand image).



**If you're a little behind schedule and want to install your foundation tubes ASAP, we can deliver them in advance of your polytunnel. Please state when ordering.**



# Polytunnel Gutters



It is widely recognised that most polytunnels are fitted with inadequate gutters. This is partly due to a lack of understanding by manufacturers, but also due to the extra cost of fabricating wider, deeper gutters which would cope with heavy rainfall (especially on longer structures). Costs are also increased when producing gutters from thicker steel with a heavier coating of zinc galvanise.

Our new 155mm deep gutter will hold at least twice as much water as a standard 75mm deep gutter. When you look at the profile of our gutter you will also notice that there is 80mm of straight side, whereas most other gutters have fully inward sloping sides. This further increases the volume, making our gutters deep enough and wide enough to cope with the rigours of the whole UK climate, even on long structures. At 27.1cm wide, our gutters are 35% wider than other manufacturers.

The 160mm outlet spout provides max discharge, which is 2.5 times greater than the 110mm spout which has been widely adopted by most of our competitors.

With a vertical gutter outlet spout the water has to spiral downwards in order to escape (like in a bath), hence slow to drain as it spends time rotating, resulting in overflowing gutters.

Our 45 degree angled gutter outlet allows the water to evacuate swiftly without rotating, like a water chute, increasing the flow rate by at least a further 30%. This direct, high velocity discharge greatly reduces the chance of blockages.

## Gutter Comparison



Northern Poly tunnels Gutter Profile



Typical Competitor Gutter Profile

	Width	Depth	Wall Thickness	Steel Grade	Outlet	Galvanising
<b>Northern Poly tunnels</b>	271mm	155mm	1.8mm	S250 GD	160mm with 45° angled spout	275gr./m <sup>2</sup> pre-galvanised zinc coated (Z275)
<b>Other Manufacturers</b>	200mm	75mm	1.5mm	S220	110mm (or less) with a vertical spout	225gr./m <sup>2</sup> galvanise zinc coated (Z225)

**Wall Thickness:** Northern Poly tunnels' gutters are 20% thicker. **Steel Grade:** S220 is a lower steel grade than the S250 GD that Northern Poly tunnels use. **Outlet:** Vertical discharge is much slower than a 45° outlet, and 110mm is simply too narrow to allow the water to escape adequately. **Galvanising:** Northern Poly tunnels gutters are 22.5% heavier galvanised.



# Overhead Irrigation

To get the best results from your polytunnel you require an efficient and accurate watering system which is tailored to your particular polytunnel. As the UK's leading polytunnel manufacturer and specialist irrigation supplier with over 40 years' experience, we are in the best position to know what gives the best results. Over the years we have used a variety of different spray nozzles which eventually lead us to our current system – which we believe is unparalleled. If you purchase your overhead spray-line system with your polytunnel you can be confident that you've purchased the best system for your particular width of polytunnel.

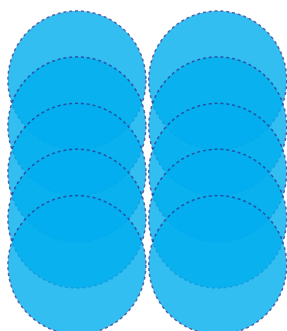
**If you require your system to include solenoid valves etc. to make it automated, then please request this option with your quotation. Alternatively, speak with a member of our irrigation team for further advice.**

**10% Discount when ordered with a polytunnel.**



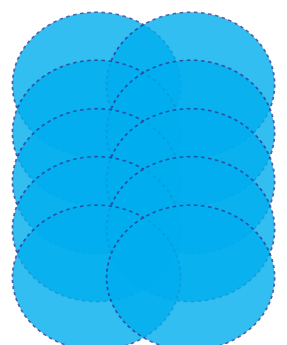
All of our overhead irrigation systems give the highest levels of uniformity with the least amount of wasted water. All kits include 30cm weighted drop tubes, anti-drip valves, and the specific sprayer for each particular width of greenhouse. After all, a sprayer which is suitable for an 18ft wide polytunnel wouldn't suit a 30ft wide tunnel, and vice versa. Supplied with two 32mm PVC spray-lines, 50mm header pipe (manifold), PVC ball valve on each line, support wires, pipe clips, Geka hose coupling, and all the necessary fixtures and fittings (even including the glue).

We offer two types of overhead irrigation kits – 'single strip watering' for single span polytunnels and 'overlapping' for full house irrigation in multi-span polytunnels/greenhouses.



## Single Strip (Individual Bay Irrigation)

Ideal for single span polytunnels. Each spray-line waters half of the polytunnel, from the side to the central path. A special device on each nozzle ensures that most of the water falls uniformly within the strip. This allows you to have a different watering regime on each side of your tunnel without any overlap. Also suitable for multi-span polytunnels/greenhouses where the same effect is desired. Even though several factors can influence the overall uniformity we would still expect around 80% with these systems (much higher than any other comparable system).



## Overlapping (Full House Irrigation)

Ideally suited to larger multi-span polytunnels/greenhouses where uniform watering across the whole area is required. Each spray-line overlaps the spray-lines on each side by 50%, effectively giving 100% overlap as each spray-line is overlapped from both sides. Overlapping gives the highest levels of uniformity, as is usually required when watering a large crop with similar water requirements. Even though several factors can influence the overall uniformity we would still expect approx. 90-95% between the first and last spray-line in the greenhouse. For multi-span polytunnels/greenhouses you need to order one kit per bay.

**See pages 81-82 for prices.**



# Hose Tracking System



**10% Discount when ordered with a polytunnel.**



**Our hose tracking system allows free flowing movement of your hose up and down your greenhouse.**

The hose tracking rails are easily attached to your polytunnel framework or glasshouse trellis beams with our universal brackets. Each carriage has eight wheels to give a smooth, snag free operation. Whether you would like to use your existing hose and fitting (**Basic Kit**) or are looking for a complete package (**Complete Kit**), you can be sure of an efficient and cost effective watering system.

See page 82 for details

	Tracking Rail, Couplers & Support Brackets.	Hose Trolleys and Supports.	End Stops.	3/4" Hose.	Soft Rain Watering Lance (options available).	Brass Hose Fittings.
<b>Basic Kit</b>	✓	✓	✓			
<b>Complete Kit</b>	✓	✓	✓	✓	✓	✓



## Danish Trolley Track/Walkways



Concrete pathways inside polytunnels are expensive, both in terms of labour and materials. They also need to be sufficiently wide enough to prevent trolleys veering off the edge. This extra width takes up valuable growing space. With this in mind we offer our rubber Danish trolley track/pathway which is precisely the width of a Danish trolley. The raised edges prevent trolleys from veering off the track/pathway, and the textured surface provides extra grip under foot. Low cost, simple to lay, easily moved, and much less noise from travelling trolleys.

The wider PVC paving sections are normally used as pedestrian walkways, especially useful in polytunnels which are used as retail areas. They can also be interlocked with the Danish trolley tracking to create the extra space required for corners, bends, turning circles and trolley parking areas.

Both the Danish trolley track and the PVC paving are supplied with access ramps.

If you request either of these with your polytunnel you'll be supplied with the correct amount to create a full length central path. **For additional paths etc. please contact our sales team.**

**See pages 47-48 for more information.**



Access Ramp





# Insulated Polytunnels (Twin Skinned)



Polythene clad structures (polytunnels) hold heat as well, if not better, than glass structures. Twin-skinned polythene clad structures can reduce the rate of heat loss by a further 30%-40% compared to single-skinned polythene structures. So it can make perfect sense to twin-skin your polytunnel where heat inputs are used. This is a relatively simple task which requires an inflation fan to blow air between the two layers of polythene.

Clear polythene covers are often preferred, as two diffused covers could restrict too much daylight.

The fan is operated by air pressure, so if air leaks out from between the two polytunnel covers (causing a fall in pressure) the fan's sensor automatically switches it on and tops up the air. During periods of snow, the air pressure can be relaxed to allow the sheets to touch, thus using the heat transfer to melt any unwanted snow loading.

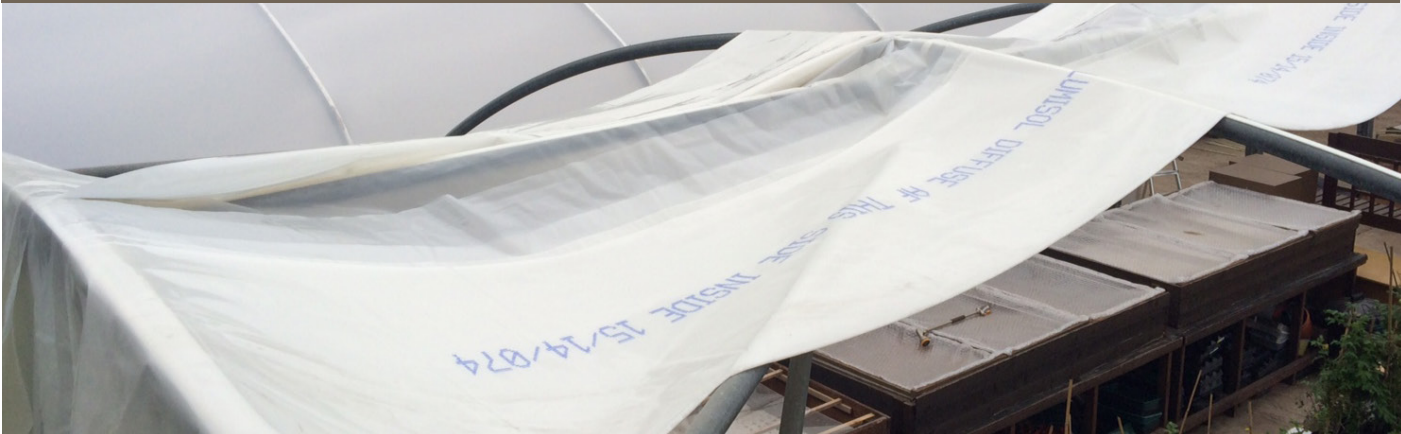
Twin-skinned polytunnels can be supplied as a complete package, or we can upgrade existing polytunnels. Alternatively, you can purchase the parts required (see page 60).

Several covers can be inflated from a single fan (up to 1,000m<sup>2</sup>), using our 'linking' kits.





# Polytunnel Covers



Visqueen’s new generation polythene films combine all the benefits of previous films (great thermic and light transmission properties), but unlike normal greenhouse films (and glass) which prevent short wavelength UV light (UVB) from reaching your crop, this ‘UV open’ film allows UVB to enter the greenhouse. This can have many benefits for both edible and ornamental crops, such as enhancing the fragrance, taste, colour, earlier harvesting and longer post-harvest shelf life. In addition, ‘UV open’ films promote plant anti-oxidants which are good for health & encourage stronger plants. This greatly benefits plant raisers and young plant growers as stronger plants can be easier to plant out thus saving time and money.

**Long-Life:** Our polytunnel covers are 180 micron (720g) thickness, and have a 5 season incremental guarantee\* against UV degradation (with the exception of green and white blackout polythene and Super Lux 50:50). However, it’s not unusual for our covers to be replaced after 10-12 years (or even longer). Remember — an extra season or two not only makes a thicker cover more economical but also saves on the cost of fitting.

Thinner, cheaper films are available, but our polythene far exceeds our expectations and are more resistant to mechanical damage.

## Calculating Sheet Width

You should measure over the circumference of the polytunnel using a reel tape measure (or a piece of rope), and make the following allowances:

Trenching in to the ground	Fixing to a base rail	Fixing to a side rail	Fixing in to a gutter
Add 1mtr per side	Add 0.5mtr per side	Add 0.5mtr per side	Add 0.5mtr per side

The table below is for guidance only and includes the above allowances required for the various fixing methods.

SINGLE-SPAN POLYTUNNELS				
Width of Polytunnel	Trenched into Ground	Fixed to Ground Rail	Fixed to Side Rail	
14ft (4.3m)	9.2m wide	9.2m wide	7.3m wide	
18ft (5.5m)	11.1m wide	11.1m wide	9.2m wide	
21ft (6.4m)	14m wide	11.1m wide	9.2m wide	
24ft (7.3m)	14m wide	14m wide	11.1m wide	
27ft (8.2m)	14m wide	14m wide	11.1m wide	
30ft (9.1m)	N/A	14m wide	14m wide	

MULTI-SPAN POLYTUNNELS				
Width of Polytunnel	Trenched into Ground	Fixed to Ground Rail	Fixed to Side Rail	Gutter to Gutter
21ft 6in (6.55m)	11.1m wide	11.1m wide	9.2m wide	9.2m wide
26ft 6in (8.08m)	14m wide	14m wide	11.1m wide	9.2m wide

## Calculating Sheet Length

Once you’ve measured the length of your polytunnel you need to make an allowance for the ends, especially if your cover is fixed to the end frames rather than fixed to the end hoops. The width of the structure and the width of the doors are the main considerations.

As a general rule, when fixing to the end frames you should add 3mtr (10ft) per end, so for a 30mtr (100ft) tunnel you would order 36mtr (120ft) long polythene sheet. A further 3mtr (10ft) could also be required to allow for the panels at each side of the door openings (if required). This extra 3mtr (10ft) should be enough to allow to both ends of the tunnel.

**Please Note:** All our measurements are based on current Northern Polytunnel models. Measurement and allowance guidelines are given in good faith, but due to variability in polytunnel design, no responsibility can be accepted for polythene orders which are placed on the basis of these guidelines if later found to be the wrong size.

**Please Note:** All prices exclude VAT



# Lumisol Clear Polythene



## 5 Year Guarantee\*

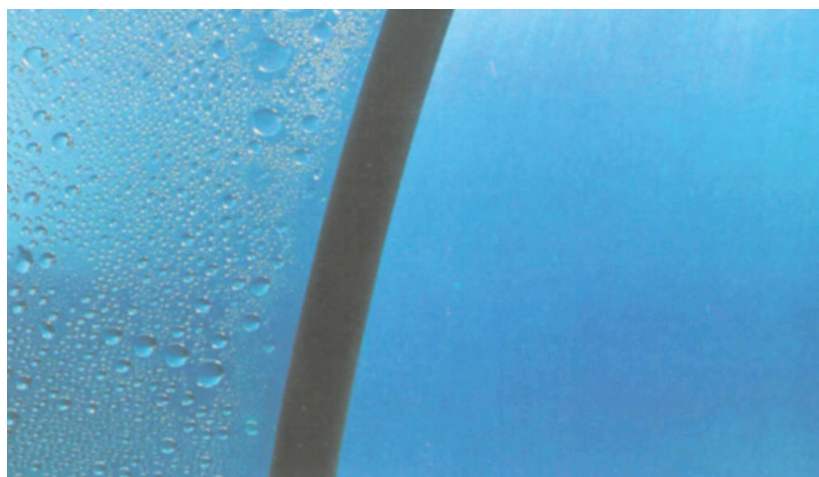
LIGHT TRANSMISSION	Up to 92%
THICKNESS	720g (180µm)
THERMIC EFFECT	Over 80%
DIFFUSION	Less than 35%

Due to its clarity, clear polythene allows around 2% more light to pass through the polythene compared to a light-diffusing film. Although light-diffusing films have several advantages over clear films, if the extra light is more beneficial to your crop (or geographical latitude) then 'Lumisol' clear polythene may be the right choice.

**Thermic Effect:** The thermicity of Lumisol polythene can give 3-4°C frost protection, or reduce energy costs by approx. 10% in heated polytunnels.

### Anti-Drip (condensation reduction)

Thanks to its unique additive, Lumisol® is able to control the condensation of water on the underside of the tunnel cover. Providing the film is correctly fitted, water will condense uniformly as a very thin layer, which, instead of remaining in position as droplets, runs down the sheet. This reduces the risk of water dripping on to the plants below and prevents the loss of light caused by these droplets, which can amount for as much as 15% light reduction. The effectiveness is reduced over the life of the cover, but an anti-condensation solution (Sunclear©) can be re-applied with a sprayer after several years if required.



\*Incremental guarantee from invoice date

REF:	PCC 731	PCC 921	PCC 111	PCC 141
WIDTH LENGTH	7.3mtr	9.2mtr	11.1mtr	14mtr
5 mtr	£47.88	£56.90	£65.43	£78.76
6 mtr	£54.45	£65.23	£75.42	£91.36
7 mtr	£60.96	£73.49	£85.34	£103.86
8 mtr	£67.43	£81.69	£95.18	£116.27
9 mtr	£73.84	£89.83	£104.94	£128.91
10 mtr	£80.21	£97.90	£114.63	£141.74
11 mtr	£86.53	£105.92	£124.42	£154.48
12 mtr	£92.80	£113.87	£134.45	£167.12
13 mtr	£99.02	£121.82	£144.41	£179.67
14 mtr	£105.20	£130.05	£154.29	£192.14
15 mtr	£111.33	£138.23	£164.11	£204.51
16 mtr	£117.41	£146.35	£173.85	£216.79
17 mtr	£123.70	£154.41	£183.53	£228.99
18 mtr	£130.01	£162.41	£193.13	£241.10
19 mtr	£136.28	£170.36	£202.67	£253.12
20 mtr	£142.50	£178.25	£212.14	£265.06
21 mtr	£148.68	£186.09	£221.55	£276.92
22 mtr	£154.82	£193.87	£230.89	£288.69
23 mtr	£160.92	£201.60	£240.16	£300.38
24 mtr	£166.97	£209.27	£249.38	£312.00
25 mtr	£172.98	£216.89	£258.52	£323.53
26 mtr	£178.95	£224.46	£267.61	£334.98
27 mtr	£184.88	£231.98	£276.63	£346.35
28 mtr	£190.77	£239.44	£285.59	£357.65
29 mtr	£196.62	£246.86	£294.49	£368.87
30 mtr	£202.43	£254.22	£303.33	£380.01
31 mtr	£208.20	£261.54	£312.11	£391.08
32 mtr	£213.93	£268.80	£320.84	£402.08
33 mtr	£219.62	£276.02	£329.50	£413.00
34 mtr	£225.28	£283.19	£338.11	£423.85
35 mtr	£230.89	£290.31	£346.66	£434.62
36 mtr	£236.47	£297.39	£355.15	£445.33
37 mtr	£242.02	£304.42	£363.59	£455.97
38 mtr	£247.53	£311.40	£371.97	£466.53
39 mtr	£253.00	£318.34	£380.30	£477.03
40 mtr	£258.44	£325.32	£388.57	£487.46
41 mtr	£263.84	£332.08	£396.79	£497.82
42 mtr	£269.20	£338.88	£404.96	£508.12
43 mtr	£274.54	£345.64	£413.07	£518.35
44 mtr	£279.83	£352.36	£421.14	£528.51
45 mtr	£285.10	£359.03	£429.15	£538.61
46 mtr	£290.33	£365.67	£437.11	£548.64
47 mtr	£295.53	£372.26	£445.02	£558.61
48 mtr	£300.69	£378.80	£452.88	£568.52
49 mtr	£305.82	£385.31	£460.69	£578.37
50 mtr	£310.93	£391.78	£468.45	£588.15





## 5 Year Guarantee\*

LIGHT TRANSMISSION	Up to 90%
THICKNESS	720g (180µm)
THERMIC EFFECT	Over 80%
DIFFUSION	Up to 90%

Light-diffusing polythene films scatter the light as it passes through the polythene. This enables the light to penetrate deep in to the plant canopy, as it hits the plant from all directions, not just from the direction of the sun. This 'diffused' light reduces the higher foliage from shading the lower parts of the plant.

Light diffusing films allow more light in to your polytunnel when the sun is low in the sky (early or late in the day, and also during the short days of winter). The diffusing process deflects more light downwards in to the crop, rather than being reflected upwards as happens with glass and clear polythene

Lumisol Diffused can reduce mid-day summertime temperatures by 2-4°C

### Anti-Drip (condensation reduction)

Thanks to its unique additive, Lumisol® is able to control the condensation of water on the underside of the tunnel cover. Providing the film is correctly fitted, water will condense uniformly as a very thin layer, which, instead of remaining in position as droplets, runs down the sheet. This reduces the risk of water dripping on to the plants below and prevents the loss of light caused by these droplets, which can amount for as much as 15% light reduction. The effectiveness is reduced over the life of the cover, but an anti-condensation solution (Sunclear®) can be re-applied with a sprayer after several years if required.



\*Incremental guarantee from invoice date

Please Note: All prices exclude VAT

REF:	PCD 731	PCD 921	PCD 111	PCD 141
WIDTH LENGTH	7.3mtr	9.2mtr	11.1mtr	14mtr
5 mtr	£50.72	£60.23	£69.94	£84.05
6 mtr	£57.84	£69.21	£80.81	£97.69
7 mtr	£64.91	£78.12	£91.60	£111.21
8 mtr	£71.92	£86.96	£102.31	£124.64
9 mtr	£78.88	£95.74	£112.94	£138.49
10 mtr	£85.79	£104.44	£123.48	£152.35
11 mtr	£92.64	£113.08	£134.30	£166.10
12 mtr	£99.44	£121.65	£145.19	£179.75
13 mtr	£106.19	£130.41	£156.00	£193.31
14 mtr	£112.89	£139.27	£166.73	£206.76
15 mtr	£119.53	£148.07	£177.39	£220.12
16 mtr	£126.13	£156.80	£187.96	£233.39
17 mtr	£133.13	£165.48	£198.47	£246.55
18 mtr	£139.96	£174.09	£208.89	£259.63
19 mtr	£146.74	£182.64	£219.25	£272.61
20 mtr	£153.48	£191.13	£229.53	£285.50
21 mtr	£160.17	£199.56	£239.74	£298.31
22 mtr	£166.81	£207.93	£249.88	£311.02
23 mtr	£173.40	£216.25	£259.94	£323.64
24 mtr	£179.95	£224.50	£269.94	£336.18
25 mtr	£186.45	£232.70	£279.87	£348.62
26 mtr	£192.91	£240.85	£289.73	£360.99
27 mtr	£199.33	£248.93	£299.52	£373.27
28 mtr	£205.70	£256.97	£309.25	£385.46
29 mtr	£212.03	£264.94	£318.90	£397.57
30 mtr	£218.31	£272.87	£328.50	£409.60
31 mtr	£224.55	£280.74	£338.03	£421.55
32 mtr	£230.76	£288.55	£347.49	£433.42
33 mtr	£236.91	£296.32	£356.90	£445.21
34 mtr	£243.03	£304.03	£366.23	£456.92
35 mtr	£249.11	£311.69	£375.51	£468.56
36 mtr	£255.15	£319.30	£384.73	£480.11
37 mtr	£261.14	£326.86	£393.88	£491.59
38 mtr	£267.10	£334.38	£402.98	£503.00
39 mtr	£273.02	£341.84	£412.01	£514.33
40 mtr	£278.90	£349.25	£420.99	£525.59
41 mtr	£284.75	£356.62	£429.91	£536.77
42 mtr	£290.55	£363.94	£438.77	£547.88
43 mtr	£296.32	£371.21	£447.58	£558.92
44 mtr	£302.05	£378.43	£456.32	£569.89
45 mtr	£307.74	£385.61	£465.02	£580.79
46 mtr	£313.40	£392.74	£473.65	£591.62
47 mtr	£319.02	£399.83	£482.23	£602.38
48 mtr	£324.61	£406.87	£490.76	£613.07
49 mtr	£330.16	£413.87	£499.23	£623.70
50 mtr	£335.68	£420.83	£507.66	£634.26



# SuperLux 50:50 Polythene

REF:	PCS 731	PCS 921	PCS 111	PCS 141
WIDTH LENGTH	7.3mtr	9.2mtr	11.1mtr	14mtr
5 mtr	£39.45	£46.66	£53.87	£64.87
6 mtr	£44.92	£53.56	£62.19	£75.37
7 mtr	£50.38	£60.43	£70.48	£85.83
8 mtr	£55.81	£67.28	£78.74	£96.25
9 mtr	£61.22	£74.09	£86.97	£106.73
10 mtr	£66.61	£80.89	£95.16	£117.65
11 mtr	£74.48	£90.15	£105.80	£131.03
12 mtr	£79.82	£96.89	£114.40	£141.88
13 mtr	£85.15	£103.60	£122.97	£152.68
14 mtr	£90.45	£110.51	£131.51	£163.44
15 mtr	£95.74	£117.56	£140.01	£174.17
16 mtr	£101.00	£124.58	£148.49	£184.85
17 mtr	£106.27	£131.57	£156.93	£195.50
18 mtr	£111.80	£138.54	£165.35	£206.11
19 mtr	£117.32	£145.49	£173.73	£216.67
20 mtr	£112.81	£152.41	£182.08	£227.20
21 mtr	£128.28	£159.30	£190.40	£237.70
22 mtr	£133.73	£166.17	£198.69	£248.15
23 mtr	£139.16	£173.02	£206.96	£258.57
24 mtr	£144.57	£179.84	£215.19	£268.94
25 mtr	£149.96	£186.64	£223.39	£279.29
26 mtr	£155.34	£193.41	£231.56	£289.59
27 mtr	£160.69	£200.15	£239.71	£299.86
28 mtr	£166.03	£206.88	£247.82	£310.09
29 mtr	£171.34	£213.58	£255.91	£320.28
30 mtr	£176.64	£220.25	£263.96	£330.44
31 mtr	£181.92	£226.90	£271.99	£340.56
32 mtr	£187.18	£233.53	£279.99	£350.65
33 mtr	£192.42	£240.14	£287.97	£360.70
34 mtr	£197.64	£246.72	£295.91	£370.71
35 mtr	£202.84	£253.28	£303.82	£380.69
36 mtr	£208.03	£259.81	£311.71	£390.64
37 mtr	£213.20	£266.32	£319.57	£400.55
38 mtr	£218.35	£272.81	£327.41	£410.42
39 mtr	£223.48	£279.28	£335.21	£420.26
40 mtr	£228.59	£285.72	£342.99	£430.07
41 mtr	£233.69	£292.15	£350.74	£439.84
42 mtr	£238.77	£298.55	£358.47	£449.58
43 mtr	£243.83	£304.92	£366.16	£459.29
44 mtr	£248.87	£311.28	£373.84	£468.96
45 mtr	£253.90	£317.61	£381.48	£478.60
46 mtr	£258.90	£323.92	£389.10	£488.20
47 mtr	£263.90	£330.21	£396.69	£497.77
48 mtr	£268.87	£336.48	£404.26	£507.31
49 mtr	£273.83	£342.73	£411.80	£516.82
50 mtr	£278.77	£348.96	£419.31	£526.34



## 5 Year Guarantee\*

LIGHT TRANSMISSION	Over 90%
THICKNESS	600g (150µm)
THERMIC EFFECT	Over 85%
DIFFUSION	50%

The benefits of diffused light vary from crop to crop, month to month and region to region. Across the UK, polytunnel cover sales are split fairly evenly between clear and diffusing polyethylene. Some growers have fully embraced diffused polyethylene whereas others argue that light-diffusing polythene is better suited for sunnier climates. The reality is that very highly diffusing films perform well under clear skies in the summer months but in cloudy conditions and during the 'shoulders' of the growing season sunlight is already diffused and this can lead to too much light being scattered out of the greenhouse. It's for this reason we developed SuperLux 50:50 which has been designed and formulated to provide just the right level of light diffusion for the UK climate.

SuperLux 50:50 has built-in anti-drip (AD) properties which help reduce the risk of fungal diseases such as Downy mildew and *Botrytis cinerea*. Thanks to the films unique AD technologies condensation on the film surface is much reduced thereby minimising both the risk of water droplets falling on the crop below and light loss caused by those droplets.

We very precisely combine our own blend of IR additives and EVA in such a way as to offer the most effective thermic properties available today. This offers unparalleled protection from frost and low temperatures and maximizes the opportunity for earlier harvesting.

SuperLux 50:50 has been designed for the UK market at the industry standard 150 microns thickness and by sourcing only the highest quality materials, coupled with industry leading quality control, we ensure this product has the highest possible mechanical strength and durability. It comes with a 5 year guarantee against premature UV degradation (incremental) but has a life expectancy of 7-8 years.

Our huge buying power as the UK's largest polytunnel manufacturer makes SuperLux 50:50 the most economical polytunnel film available in the UK.



# White UVI Polythene



LIGHT TRANSMISSION	67% - 68%
THICKNESS	720g (180µm)
THERMIC EFFECT	55%
DIFFUSION	32% - 33%



White UVI polythene produces shade and reduces daytime temperatures, allowing 60-70% light transmission.

**Ideal for:** Crops that require shade and cooler daytime temperatures such as nursery stock, ferns and conifers. The over-wintering of hardy shrubs and for general hardening off. Also widely used in the agriculture for general livestock housing and also general storage.



Please Note: All prices exclude VAT

REF:	PCW 921	PCW 111	PCW 122	PCW 151
WIDTH LENGTH	9.2mtr	11.2mtr	12.5mtr	15mtr
5 mtr	£57.09	£65.62	£72.68	£84.45
6 mtr	£65.46	£75.66	£84.09	£98.16
7 mtr	£73.76	£85.61	£95.42	£111.76
8 mtr	£82.00	£95.49	£106.65	£125.26
9 mtr	£90.18	£105.29	£117.80	£139.34
10 mtr	£98.29	£115.02	£128.87	£153.28
11 mtr	£106.34	£124.78	£140.64	£167.12
12 mtr	£114.33	£134.84	£152.08	£180.87
13 mtr	£122.26	£144.83	£163.43	£194.51
14 mtr	£130.53	£154.75	£174.71	£208.05
15 mtr	£138.74	£164.59	£185.90	£221.50
16 mtr	£146.88	£174.36	£197.02	£234.85
17 mtr	£154.98	£184.07	£208.05	£248.11
18 mtr	£163.01	£193.71	£219.01	£261.27
19 mtr	£170.99	£203.27	£229.89	£274.34
20 mtr	£178.91	£212.78	£240.69	£287.31
21 mtr	£186.78	£222.21	£251.42	£300.20
22 mtr	£194.59	£231.58	£262.07	£312.99
23 mtr	£202.34	£240.88	£272.65	£325.70
24 mtr	£210.05	£250.12	£283.15	£338.32
25 mtr	£217.70	£259.30	£293.58	£350.85
26 mtr	£225.29	£268.41	£303.94	£363.30
27 mtr	£232.84	£277.46	£314.23	£375.66
28 mtr	£240.33	£286.45	£324.45	£387.93
29 mtr	£247.78	£295.37	£334.60	£400.13
30 mtr	£255.17	£304.24	£344.64	£412.24
31 mtr	£262.51	£313.05	£354.70	£424.27
32 mtr	£269.81	£321.80	£364.64	£436.22
33 mtr	£277.05	£330.49	£374.52	£448.08
34 mtr	£284.25	£339.12	£384.34	£459.87
35 mtr	£291.40	£347.69	£394.09	£471.59
36 mtr	£298.50	£356.21	£403.77	£483.22
37 mtr	£305.55	£364.67	£413.39	£494.78
38 mtr	£312.56	£373.08	£422.95	£506.26
39 mtr	£319.53	£381.43	£432.45	£517.67
40 mtr	£326.45	£389.73	£441.88	£529.00
41 mtr	£333.32	£397.98	£451.25	£540.26
42 mtr	£340.15	£406.17	£460.57	£551.45
43 mtr	£346.93	£414.31	£469.82	£562.56
44 mtr	£353.67	£422.39	£479.01	£573.60
45 mtr	£360.37	£430.43	£488.15	£584.58
46 mtr	£367.03	£438.41	£497.22	£595.48
47 mtr	£373.64	£446.34	£506.24	£606.32
48 mtr	£380.22	£454.23	£515.21	£617.08
49 mtr	£386.75	£462.06	£524.11	£627.78
50 mtr	£393.24	£469.84	£532.96	£638.41



REF:	PCG 141
LENGTH	14mtr WIDE
5 mtr	£90.03
6 mtr	£104.84
7 mtr	£119.52
8 mtr	£134.09
9 mtr	£149.61
10 mtr	£164.66
11 mtr	£179.59
12 mtr	£194.42
13 mtr	£209.14
14 mtr	£223.75
15 mtr	£238.26
16 mtr	£252.66
17 mtr	£266.96
18 mtr	£281.16
19 mtr	£295.26
20 mtr	£309.26
21 mtr	£323.16
22 mtr	£336.96
23 mtr	£350.67
24 mtr	£364.28
25 mtr	£377.80
26 mtr	£391.23
27 mtr	£404.56
28 mtr	£417.80
29 mtr	£430.96
30 mtr	£444.02
31 mtr	£457.00
32 mtr	£469.89
33 mtr	£482.69
34 mtr	£495.41
35 mtr	£508.04
36 mtr	£520.59
37 mtr	£533.06
38 mtr	£545.55
39 mtr	£557.75
40 mtr	£569.97
41 mtr	£582.12
42 mtr	£594.19
43 mtr	£606.17
44 mtr	£618.09
45 mtr	£629.92
46 mtr	£641.68
47 mtr	£653.37
48 mtr	£664.98
49 mtr	£676.52
50 mtr	£687.99



Green & white polythene was originally formulated to meet the needs of the mushroom grower. The green outer layer helps this cover blend in with the environment, whilst the white inner layer reflects internal lighting to provide a pleasant working environment. A black core layer ensures complete opacity (black-out) and contributes to the durability of the film.

This film is widely used for other applications, such as livestock housing, fish farms and protective structures. As this polythene is black-out, artificial lighting will be required.



LIGHT TRANSMISSION	0%
THICKNESS	800g (200µm)
THERMIC EFFECT	N/A
DIFFUSION	N/A





Our in-house fabrication department can produce net covers to any size. Our standard shade net covers are dark green with a 40%-45% shade value, but heavier shade values can be catered for.

Our production method spaces the seams between 2m-3m apart (depending on the size), with the seams running parallel with the hoops (width-ways). Bespoke nets can be supplied which can include hemming and eyelets.

**Any size can be fabricated. Phone for details.**

**See page 51 for standard rolls of shade netting.**

#### Width of net required:

Chart is for guidance only. If in doubt opt for the next size up.

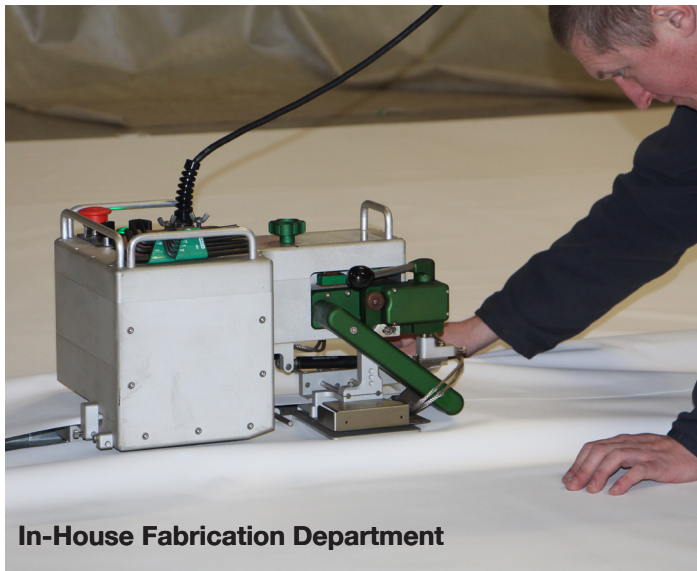
Single Span Polytunnels			
Width of Structure	Trenched Into The Ground	Fixed To A Base Rail	Fixed To A Side Rail
14ft (4.3m)	10m Wide	8m Wide	8m Wide
18ft (5.5m)	12m Wide	10m Wide	8m Wide
21ft (6.4m)	12m Wide	12m Wide	10m Wide
24ft (7.3m)	14m Wide	12m Wide	10m Wide
27ft ( 8.2m)	14m Wide	14m Wide	12m Wide
30ft (9.2m)	16m Wide (POA)	14m Wide	12m Wide

Multi-Span Polytunnels				
Width of Structure	Trenched Into The Ground	Fixed To A Base Rail	Fixed To A Side Rail	Gutter to Gutter
21ft 6in (6.5m)	12m Wide	10m Wide	10m Wide	8m Wide
26ft 6in (8m)	14m Wide	12m Wide	12m Wide	10m Wide

REF:	SNF 73	SNF 92	SNF 11	SNF 14
WIDTH LENGTH	8mtr	10mtr	12mtr	14mtr
10 mtr	£104.00	£110.00	£132.00	£154.00
11 mtr	£114.40	£121.00	£145.20	£169.40
12 mtr	£124.80	£132.00	£158.40	£184.80
13 mtr	£114.40	£143.00	£171.60	£200.20
14 mtr	£123.20	£154.00	£184.80	£215.60
15 mtr	£132.00	£165.00	£198.00	£210.00
16 mtr	£140.80	£176.00	£211.20	£224.00
17 mtr	£149.60	£187.00	£204.00	£238.00
18 mtr	£158.40	£198.00	£216.00	£252.00
19 mtr	£167.20	£209.00	£228.00	£266.00
20 mtr	£176.00	£200.00	£240.00	£280.00
21 mtr	£184.80	£210.00	£252.00	£294.00
22 mtr	£193.60	£220.00	£264.00	£308.00
23 mtr	£202.40	£230.00	£276.00	£322.00
24 mtr	£211.20	£240.00	£288.00	£336.00
25 mtr	£200.00	£250.00	£300.00	£350.00
26 mtr	£208.00	£260.00	£312.00	£364.00
27 mtr	£216.00	£270.00	£324.00	£378.00
28 mtr	£224.00	£280.00	£336.00	£392.00
29 mtr	£232.00	£290.00	£348.00	£365.40
30 mtr	£240.00	£300.00	£360.00	£378.00
31 mtr	£248.00	£310.00	£372.00	£390.60
32 mtr	£256.00	£320.00	£384.00	£403.20
33 mtr	£264.00	£330.00	£396.00	£415.80
34 mtr	£272.00	£340.00	£367.20	£428.40
35 mtr	£280.00	£350.00	£378.00	£441.00
36 mtr	£288.00	£360.00	£388.80	£453.60
37 mtr	£296.00	£370.00	£399.60	£466.20
38 mtr	£304.00	£380.00	£410.40	£478.80
39 mtr	£312.00	£390.00	£421.20	£491.40
40 mtr	£320.00	£360.00	£432.00	£504.00
41 mtr	£328.00	£369.00	£442.80	£516.60
42 mtr	£336.00	£378.00	£453.60	£529.20
43 mtr	£344.00	£387.00	£464.40	£541.80
44 mtr	£352.00	£396.00	£475.20	£554.40
45 mtr	£360.00	£405.00	£486.00	£567.00
46 mtr	£368.00	£414.00	£496.80	£579.60
47 mtr	£376.00	£423.00	£507.60	£592.20
48 mtr	£384.00	£432.00	£518.40	£604.80
49 mtr	£392.00	£441.00	£529.20	£617.40
50 mtr	£360.00	£450.00	£540.00	£630.00
51 mtr	£367.20	£459.00	£550.80	£642.60
52 mtr	£374.40	£468.00	£561.60	£655.20
53 mtr	£381.60	£477.00	£572.40	£667.80
54 mtr	£388.80	£486.00	£583.20	£680.40
55 mtr	£396.00	£495.00	£594.00	£693.00

Please Note: All prices exclude VAT





In-House Fabrication Department



PVC covers are available in a range of colours



Translucent White

PVC coated fabrics are the preferred cladding material for most garden centre retail canopies, and are available in a range of colours including translucent. Translucent PVC cladding is especially popular due to its higher light transmission properties and has become the standard product in the UK.



Our in-house fabrication department can produce PVC sheets to almost any size. All seams are heat welded to create a join which is stronger than the material itself.

**Weight:** 610g/m<sup>2</sup>

**Flame-retardancy:** Complies to BS 7837: 1996

**Tensile strength:** Warp 1200N/50mm, Weft 1100N/50mm (BS3424/ 6B)

**Tear strength:** Warp 400N, Weft 350N (BS 3424/ 7B)

**Coating:** Flexible plasticized PVC applied to both sides

**Contact our sales department for a quotation.**



## Shade Tunnels



As well as our shade halls, we also offer shade tunnels. These are our standard tunnel framework (all sizes), clad with shade netting instead of polythene. We can also clad part of the tunnel with polythene and part with netting.



Although we mostly clad netted tunnels with shade netting, typically 40-45% shade value, we can also fabricate other types of netting to cover our structures. Various types of bird nettings, anti-hail netting, insect & butterfly nettings etc. can all be used. We were even asked to make a large structure to cover a whole vegetable garden/allotment (30ft x 66ft), and cover it with netting to deter birds and butterflies.

**Shade tunnels are a lower cost compared to shade halls (opposite) but don't offer the same resilience to heavy snow loads.**



## Shade Halls

Hardy trees, shrubs and vines, including azaleas, camellias, rhododendrons and tree ferns are not always suited to the growing environment a polytunnel provides.

Northern Polytunnels have therefore developed the Shade Hall. This provides semi-shading and protection from direct sunlight, which for nursery stock at various levels of growth is an essential factor.



The shade halls are manufactured from 50mm (2") diameter, Z35 high tensile pre-galvanised steel tubing.

The structure is based on a grid layout, with each section of the grid measuring 3.75m x 3.75m, and the overall height being approximately 2.7m. Ideal for creating irregular-shaped structures.

This economic design of the shade house allows excellent accessibility and full use of the floor area.

The roof of the shade hall is clad with Paraweb. This heavy duty material gives 40-45% shade. Crucially, the flat tape design of Paraweb allow the straps to tip to either side when loaded with snow, making this flat roof design suitable for the UK climate especially in high snow fall regions.

The sides of the shade house are clad with 40% shade netting, which is manufactured from a knitted polyethylene monofilament. Clear sections can be left for access, alternatively doors are available with the structure, each measuring 0.89m wide x 2.55m high.

Both of these materials allow free air circulation, but provide shelter from strong winds, which could otherwise cause damage to plants.





# Fruit Cages



TOP NET



SIDE NET

## Frame

Modular tubular steel design which allows any area to be covered in 2.5m sections, both widthways and lengthways. Our standard tube is 25mm diameter galvanised steel, however a heavy duty 50mm tubular steel option is also available (ask for details). The vertical poles are simply driven 30cm in to the ground, although they can also be concreted for extra strength. All the joints are swaged, allowing the steel tubes to be slotted together, rather like old-fashioned tent poles. Because the connections are swaged and not the poles, individual poles can be cut to your preferred size in order to make the structure fit precisely in to the area you want to protect. The finished height is 2mtr. One door is supplied with each fruit cage, and can be position anyway around the circumference. Extra doors are available if required.

## Netting

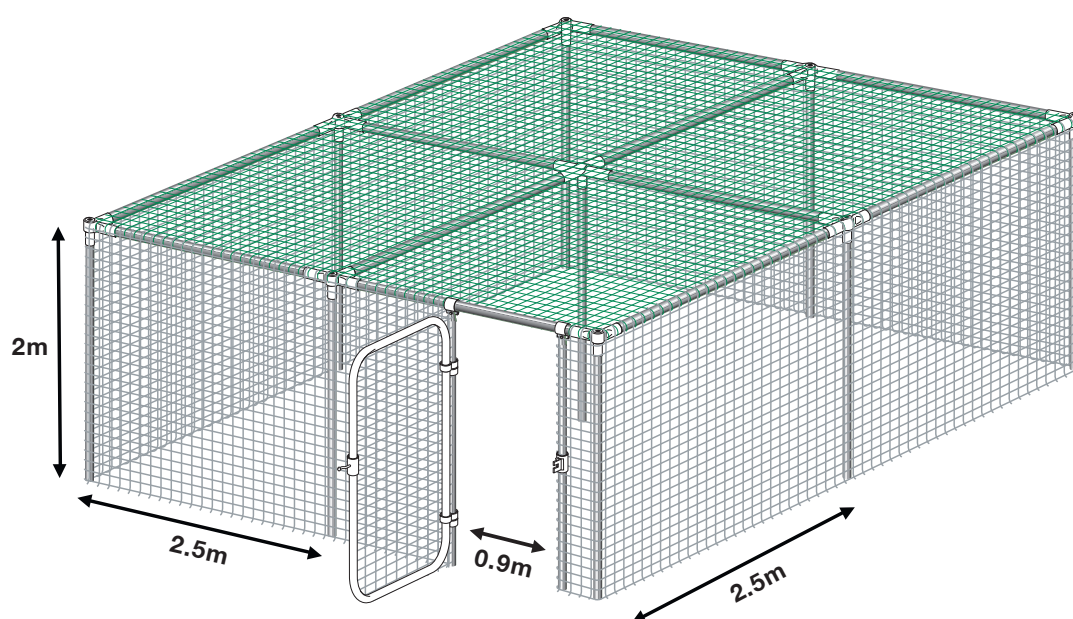
The side netting is an extruded polypropylene net with an 18mm (¾") square mesh. This rigid netting prevents the side net from sagging, maintaining a neat appearance. The roof net is a flexible knitted mesh which is stretched over the roof area and secured to the top edge with cable ties. The flexible nature of the top net allows props to be used to raise the net if required.

For large structures we can supply corner stabilisers. These may be required where windbreak netting is fastened to the sides, as this kind of fabric can catch the wind. Please call 01282 873120 for details.

	Width							
Length	2.5m	5m	7.5m	10m	12.5m	15m	17.5m	20m
2.5m	£155.90	£214.79	£273.67	£332.56	£391.44	£450.33	£509.21	£568.10
5m	£214.79	£298.91	£385.81	£472.72	£559.62	£646.53	£733.43	£820.34
7.5m	£273.67	£385.81	£495.07	£609.10	£723.12	£837.15	£951.17	£1,065.20
10m	£332.56	£472.72	£609.10	£757.76	£901.83	£1,045.90	£1,189.97	£1,334.04
12.5m	£391.44	£559.62	£723.12	£901.83	£1,094.06	£1,270.78	£1,447.49	£1,624.21
15m	£450.33	£646.53	£837.15	£1,045.90	£1,270.78	£1,456.44	£1,659.47	£1,862.51
17.5m	£509.21	£733.43	£951.17	£1,189.97	£1,447.49	£1,659.47	£1,871.45	£2,100.81
20m	£568.10	£820.34	£1,065.20	£1,334.04	£1,624.21	£1,862.51	£2,100.81	POA
Extra Door Kit (includes 2 x independent upright door posts, door , hinges and fixings)								£60.91

Please Note: All prices exclude VAT







# Benching

## Low-Cost Modular Static Benching



Easy to assemble flat-pack bench, manufactured from 25mm pre-galvanised steel tube with a steel mesh top. Supplied with four corner bracing bars to give extra stability. The bench is 1m wide, 0.8m high, and comes in 1.2m long sections, allowing you to create a continuous bench to suit the length of your polytunnel or plant display area.

- **Width:** 1m
- Robust design
- Fully galvanised
- Unlimited length (in 1.2m increments)
- 3" x 1" Steel mesh top (3mm diam.)
- Quick self-assembly
- Simple slot together frame

Length	Price	Length	Price
2.4m	£158.83	26.4m	£1,206.40
3.6m	£218.22	27.6m	£1,251.03
4.8m	£276.88	28.8m	£1,294.92
6.0m	£334.79	30.0m	£1,338.07
7.2m	£391.97	31.2m	£1,380.48
8.4m	£448.41	32.4m	£1,422.15
9.6m	£504.11	33.6m	£1,463.08
10.8m	£559.07	34.8m	£1,503.28
12.0m	£613.30	36.0m	£1,542.74
13.2m	£666.78	37.2m	£1,581.46
14.4m	£719.53	38.4m	£1,619.44
15.6m	£771.54	39.6m	£1,656.68
16.8m	£822.81	40.8m	£1,693.19
18.0m	£873.35	42.0m	£1,728.95
19.2m	£923.14	43.2m	£1,763.98
20.4m	£972.20	44.4m	£1,798.27
21.6m	£1,020.51	45.6m	£1,831.82
22.8m	£1,068.09	46.8m	£1,864.63
24.0m	£1,114.93	48.0m	£1,896.71
25.2m	£1,161.04		

**\*10% discount for multiple bench orders.  
Buy 2 or more benches and get 10% off the total order value!**





Northern Polytunnels offer two types of professional tray benches, static benching and rolling benching. Both types can be supplied with either a steel mesh base, a plastic flood base (ebb & flow), or an aluminium sheet for heated benching.

The longer cultivation benches are available in four standard widths: **1m, 1.2m, 1.5m and 1.8m**, and can be supplied any length. The three narrower widths (1m-1.5m) come in 2m sections, whereas the 1.8m wide model is supplied in 1.5m sections. Smaller 1.5m wide static benches are also available in 2m, 3m, 4m and 5m lengths. These are ideal as mobile display benches or for propagation tables. The minimum width for rolling benches is 1.5m - any less would leave too narrow a path, or the bench would become unstable.

An adjustable height function is provided for levelling with an approx. working height of 0.9m. All bench options can be supplied with steel arches incorporating our roll-up/roll-down propagation tent. Full irrigation systems also available, including mist, spray, drip or flood.

Manufactured from durable materials for use in corrosive environments. The raised sides and cross beams are made from aluminium, the corners are PVC, and hot-dipped galvanised steel is used for the lower structure (trestles etc.).

**Please call 01282 873120 for a quote.**



# Danish Trolley Tracking and Walkways

## Danish Trolley Tracking



### Features

- Sections interlock (end to end).
- Can be used as a permanent or temporary track.
- Easy to lay and move.
- Makes trolley movement smooth and quiet.
- Anti-slip surface in the centre of the track.
- Heavy duty and long lasting (18kg per section).
- Made from recycled plastics.
- Supplied in 1.2m x 0.54m interlocking lengths.
- 50 tracks per pallet (for info only).



To create a turning circle see our PVC paving on the next page.



### Installation

#### Temporary Track

Make sure surface is flat and even.  
When laying long lengths leave a 3mm gap in-between tracks.

#### Permanent Track

Make sure surface is flat and even.  
Lay woven polypropylene ground cover.  
Apply 20-30mm of fine split gravel.  
Leave 3mm gap between tracks.  
Getting trolleys on and off the track is made easier by using our ramps.  
We recommend not laying or moving the track in freezing weather conditions.



Below Ramp Shown in Image

Ref	Description	1-24	25-49	50-99	100+
DTT 01	Danish Trolley Tracking 1.2m x 0.54m	£22.79	£21.04	£19.54	£18.24
DTT 02	Danish Trolley Tacking Above Ramp 54cm Wide	£5.90	£4.90	£4.90	£4.90
DTT 03	Danish Trolley Tacking Below Ramp 54cm Wide	£5.90	£4.90	£4.90	£4.90

Please Note: All prices exclude VAT





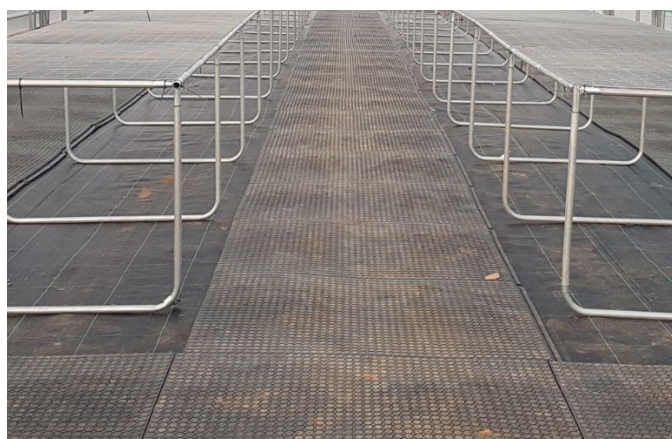
**Size:** 120cm x 80cm x 2cm  
**Weight:** 20kg per piece  
**Ramps:** 40cm wide  
**Colour:** Black  
**Pallet Qty:** 50 paving sections/pallet  
 (for information only)

**Advantages:**

Can be driven over by car.  
 A pimpled closed surface.  
 Can be inter-linked on all sides.



Use PVC Paving To Create a Turning Circle



These heavy duty PVC paving sections can be interlocked length ways to create a 80cm wide path, or sideways to create a 1.2mtr wide path. They can even be interlocked in a grid formation (both, end to end and side by side) to cover a large open area.

These can also interlock with Danish trolley tracking to create the extra width required for corners, bends and turning circles.

40cm wide, interlocking ramps are used to allow smooth trolley access, and to prevent pedestrians from tipping as they step on the walkway.

Two ramps are required at each end for an 80cm wide pathway. Upper ramps are required for one end whilst lower ramps will be needed for the opposite end. Three ramps would be required along each 1.2m edge.

If creating a large area e.g. 12m x 12m, and you require ramps along all four sides, then you would require 60 upper ramps and 60 lower ramps (and 150 paving sections).



Ref	Description	1-24	25-49	50-99	100+
PPW 01	PVC Paving/Walkway 1.2m x 0.8m	£25.18	£23.24	£21.58	£20.14
PPW 02	PVC Paving Above Ramp 40cm Wide	£4.90	£3.90	£3.90	£3.90
PPW 03	PVC Paving Below Ramp 40cm Wide	£4.90	£3.90	£3.90	£3.90



## Side Vent Screen Fabric



Woven HDPE Flat Tape Fabric, coated both sides with low density polyethylene (LDPE).

- Much higher durability than polythene film
- Widely used on roll-down side vent screens and tunnel ends
- UV stabilised (UVI).

**Weight:** 200g/m<sup>2</sup> (ISO 3801-2)

**Light Transmission:** 71%

**Shade Value:** 29%

**Colour:** Natural

		Price Per Running Metre		
Ref	Width	1-24	25-49	50+
CML 01	1.0m	£4.68	£4.07	£3.54
CML 25	2.5m	£11.70	£10.17	£8.53

## Wind-Down Side Vent Film (with sleeve)



Comes complete with a 50mm (2") welded pocket/ seam to accommodate the steel curtain tube.

- 600g (150µm) thickness.
- UV stabilised for longer life.

			Price per Running Metre							
Ref	Sheet Width	Fold	1-24	25-49	50-74	75-99	100-124	125-149	150-174	175-200
PCC 21	1.95m	SWS*	£2.61	£2.50	£2.40	£2.31	£2.22	£2.14	£2.07	£2.00

## Roll-Up Side Vent Film



Plain 2m or 3m wide sheet (without pocket) for clipping on to your curtain tube.

- 600g (150µm) thickness.
- UV stabilised for longer life.
- Maximum roll length is 200m.
- Clear Polythene.

				Price per Roll
Ref	Width	Length	Fold	1
PCC 2A	2m	200m	SWS*	£235.00

			Price per Running Metre							
Ref	Sheet Width	Fold	1-24	25-49	50-74	75-99	100-124	125-149	150-174	175-200
PCC 2	2m	SWS*	£1.89	£1.80	£1.71	£1.64	£1.57	£1.50	£1.44	£1.38

\*SWS = Single Width Sheet (unfolded) \*CF = Centre Folded (Folded once before rolling) \*DF = Double Folded (Both sides folded in to the centre)

Please Note: All prices exclude VAT



## Side Vent Netting with PVC Skirt



Green PVC Skirt



Our side vent netting is fabricated from a 40-45% shade value monofilament netting which has a PVC fabric skirting stitched along the base. This skirting prevents ground level draughts creeping through when the roll-down vent is in the closed position. Contains a UV inhibitor to prevent premature UV degradation.

**1m net with a 50cm PVC skirt:** Generally used for side rail to base rail vents on single bay polytunnels

**1.5m net with a 50cm PVC skirt:** Generally used for side rail to base rail vents on Multi-Span polytunnels without side gutters.

**2m net with 1m PVC skirt:** Generally use for gutter to base rail side vents.

Make your own allowances depending upon your fixing method. The height of the skirting can be adjusted to your requirements when fitting.



Clear PVC Skirt

Clear PVC Skirt					
Ref	Overall Height	Net Height	PVC Height	PVC Colour	Price Per Metre
STN 2	2.0m	1.5m	50cm	Clear	£5.55
STN 6	3m	2m	1m	Clear	£7.43
Green PVC Skirt					
Ref	Overall Height	Net Height	PVC Height	PVC Colour	Price Per Metre
STN 4	1.5m	1m	50cm	Green	£4.88
STN 3	2m	1.5m	50cm	Green	£5.28
STN 5	2.5m	2m	50cm	Green	£5.68
STN 7	3m	2m	1m	Green	£7.58



## Shade / Side Vent Netting



Knitted polyethylene monofilament.  
UV stabilised (UVI).

**Colour:** Dark Green

**Shade Value:** 40%-45%

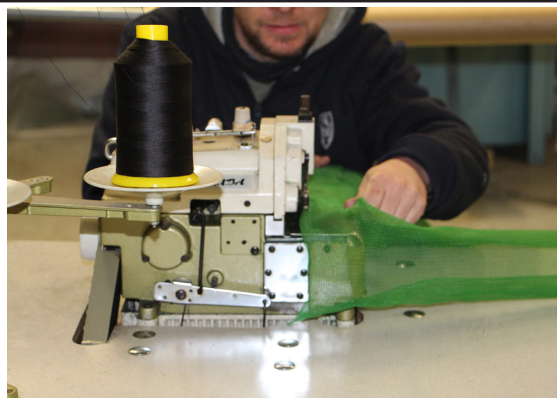
**Weight:** 90g/m<sup>2</sup>



Full Rolls			Price per Roll		
Ref	Roll Width	Roll Length	1	2-4	5+
SNG 100	1m	50m	£42.50	£39.31	£36.36
SNG 150	1.5m	50m	£60.00	£55.50	£51.34
SNG 200	2m	50m	£75.56	£69.89	£64.65
SNG 300	3m	100m	£107.37	£99.32	£91.87

Part Rolls		Price per Running Metre		
Ref	Width	1-9	10-24	25+
SVN 100	1m	£1.70	£1.53	£1.38
SVN 150	1.5m	£2.28	£2.05	£1.85
SVN 200	2m	£2.72	£2.45	£2.20
SVN 300	3m	£3.65	£3.29	£2.96

## Fabricated Net



## Tailor-Made Netting

Our in-house fabrication department can manufacture netting to almost any size and shape. We produce large net sheets from 3m wide rolls which are triple-stitched together using UV stabilized poly/cotton thread. We can also hem the edges and insert brass eyelets if required.

We use a knitted polypropylene monofilament netting with a 40-45% shade value, dark-green in colour and UV stabilized.

**Other materials available – phone for a quote.**

Price			
1-99m <sup>2</sup>	100-199m <sup>2</sup>	200-399m <sup>2</sup>	400m <sup>2</sup> +
£1.30	£1.10	£1.00	£0.90

Please Note: All prices exclude VAT



### Knitted Anti-Bird Netting

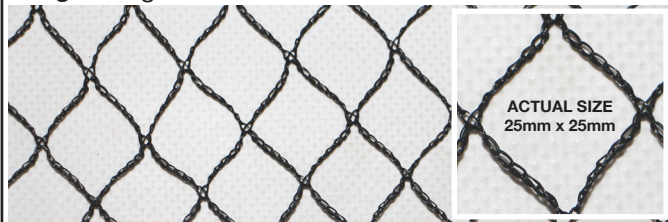
UV stabilised (UVI) knitted polyethylene monofilament (HDPE).

Flexible and manoeuvrable.

**8m and 20m wide:** 25mm x 25mm mesh.

**4m, 6m and 12m wide:** 20mm x 20mm mesh.

**Weight:** 30g/m<sup>2</sup>



Ref	Width	Roll Length	Price
FCT 4	4m	100m	£96.00
FCT 6	6m	100m	£130.00
FCT 8	8m	100m	£146.00
FCT 12	12m	100m	£220.00
FCT 20	20m	100m	£347.00

		Price per Metre		
Ref	Width	1-19	20-49	50-99
FCT 41	4m	£1.93	£1.69	£1.45
FCT 61	6m	£2.61	£2.28	£1.96
FCT 81	8m	£2.93	£2.57	£2.20
FCT 121	12m	£4.42	£3.86	£3.31
FCT 201	20m	£6.95	£6.08	£5.21

### Anti-Hail / Butterfly Netting

Prevents bloom and blossom damage by hail.

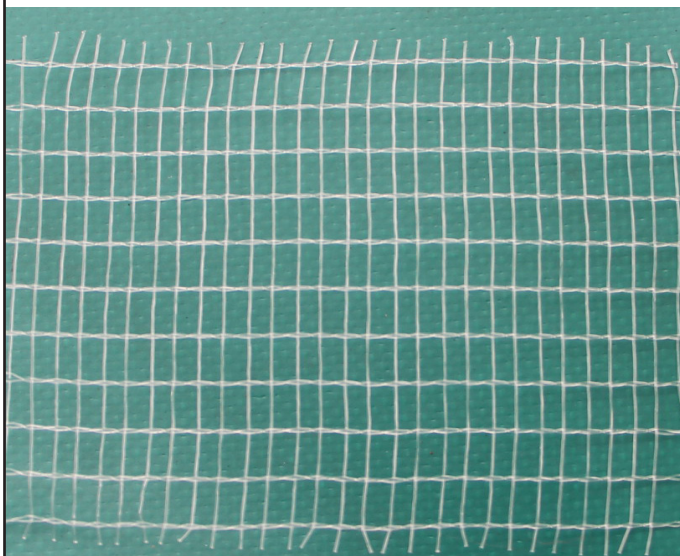
UV stabilised HDPE monofilament.

Flexible and manoeuvrable.

**Mesh size** 2.5mm x 3mm

**Weight:** 46g/m<sup>2</sup> (9% shading).

**Colour:** Neutral (clear).



Often used as anti-butterfly netting.

Ref	Width	Roll Length	Price
AHN 400	4m	100m	£219.00

### Extruded Anti-Bird Netting

Rigid and high strength.

UV stabilised (UVI) and rot proof.

**Colour:** Black.

**Mesh Size** 18mm x 18mm.

**Weight:** 80g/m<sup>2</sup>



Ref	Width	Roll Length	Price
FCS 21	2m	200m	£209.00

		Price per Metre		
Ref	Width	1-19	20-49	50-99
FCS 2	2m	£2.09	£1.83	£1.57

### Anti-Insect Mesh

UV Stabilised (UVI) woven polyethylene monofilament.

**Mesh:** 0.78mm x 0.26mm (whitefly, thrips, aphid)

**Colour:** Transparent

Flexible and manoeuvrable.

Rot Proof.



Can be sewn together to make large sheets (phone for details).

Ref	Mesh Size	Width	Roll Length	Price	
ING 22	0.78x 0.26mm	3.66m	100m	£379.00	
			Price Per Metre		
Ref	Mesh Size	Width	1-19	20-49	50-99
ING 221	0.78mm x 0.26mm	3.66m	£6.11	£5.55	£5.05



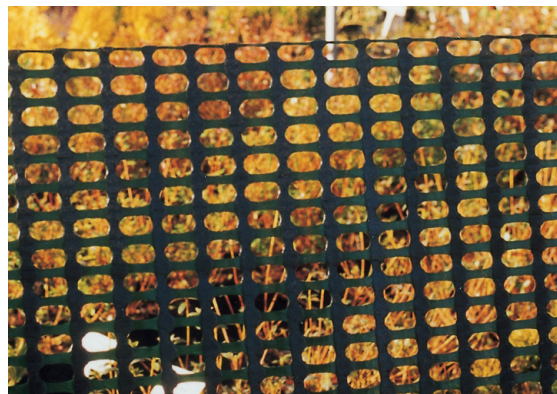
Super Strength Windbreak



With a tensile strength of 30kN/m, this windbreak is one of the strongest available and will protect from gale force winds.

Manufactured in 1m width, this netting can be erected in successive layers as a high level windbreak for the protection of large areas of crops or glasshouses.

**Mesh size:** 40mm x 20mm.  
**Colour:** Green.  
**Tensile Strength:** 30kn.  
**Weight:** 700g/m<sup>2</sup>.  
**Protection Factor:** 45%.  
Easy to install.  
UV stabilised.



Ref	Description	Price
SWK 130	Super Strength Windbreak 1mtr x 30mtr roll	£183.00

Low Cost Windbreak


**Mesh size:** 15mm x 5mm.  
**Colour:** Green.  
**Weight:** 300g/m<sup>2</sup>.  
**Wind reduction:** 60% (approx.)  
UV stabilised.

Install using a tensioned top wire to maintain a taught top edge. Base and mid wires also advised.  
2m high available on request.



Ref	Description	Price
LWK 130	Low Cost Windbreak 1mtr x 30mtr roll	£79.00

Paraweb (T50)



- Aperture Size: 95cm x 5cm
- 58% Wind Speed Reduction
- High impact and tensile strength.
- Does not corrode or rot.
- Unaffected by salt water.
- Virtually maintenance free.
- Excellent UV resistance (20 years).
- Strength: 165kg Breaking Strain

It is recommended that you install using the correct staples.

**Colour:** Black (Green available on request).

Ref	Description	Price
PWB 130	Paraweb Windbreak 1mtr x 30mtr Roll	£185.00
PWB 230	Paraweb Windbreak 2mtr x 30mtr Roll	£350.00
PWS 220	Paraweb Staples - Pack of 220	£29.00

**NOTE:** One pack of staples required per 2m x 30m roll.



## Ground Cover Fabric (Weed Control Fabric)



Woven polypropylene fabric for effective weed control.

**Colour:**

Black with green grid lines.

**Weight:**

100gr/m<sup>2</sup>

**Light Transmission:**

Less than 5%

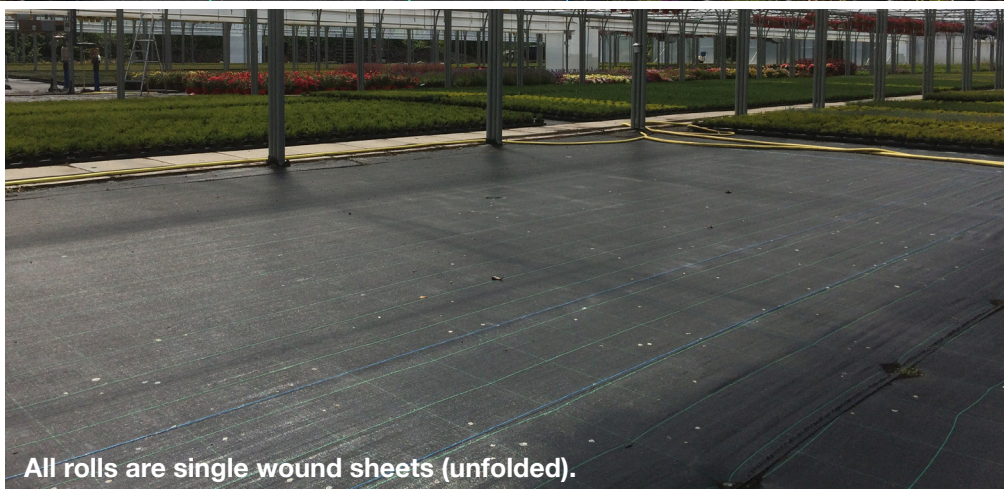
**Water Permeability:**

15ltr/m<sup>2</sup>/second  
(EN ISO 11058).

**Grid Lines:**

25cm x 25cm  
for accurate plant spacing.

UV stabilised for long life.

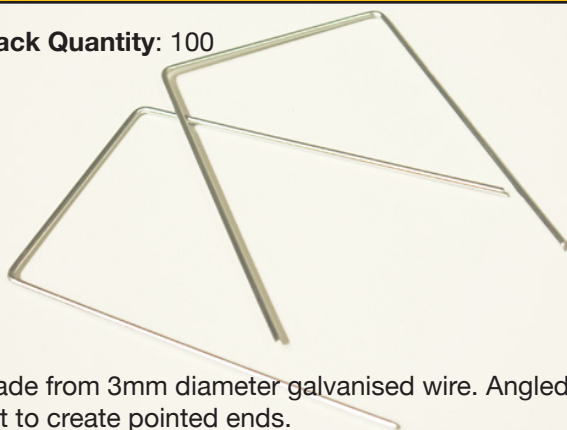


All rolls are single wound sheets (unfolded).

			Price Per 100m Roll				Price Per metre		
Ref	Width	Roll Length	1	2-4	5-9	10+	Ref	Width	Price
GCF 100	1m	100m	£43.70	£40.00	£37.00	£34.30	GCF 101	1m	£0.70
GCF 130	1.3m	100m	£56.80	£52.00	£48.00	£44.60	GCF 131	1.3m	£0.90
GCF 200	2m	100m	£87.30	£80.00	£73.90	£68.60	GCF 201	2m	£1.40
GCF 330	3.3m	100m	£132.00	£121.90	£113.20	£105.60	GCF 331	3.3m	£2.00
GCF 400	4m	100m	£160.00	£147.70	£137.20	£128.00	GCF 401	4m	£2.40
GCF 530	5.3m	100m	£212.00	£195.70	£181.80	£169.60	GCF 531	5.3m	£3.20

## Ground Staples

Pack Quantity: 100



Made from 3mm diameter galvanised wire. Angled-cut to create pointed ends.

Ref	Description	Price Per 100
GSS 46	100mm x 150mm (4" x 6")	£15.20
GSS 49	100mm x 225mm (4" x 9")	£26.00

## Ground Pegs

Pack Quantity: 100



Polypropylene pegs for securing ground fabrics and fleece.

Ref	Length	Head Diam.	Price Per 100
GCP 61	15cm (6in)	3cm	£9.95
GCP 71	19cm (7½in)	4cm	£12.18



## White Floor Polythene

White polythene film.  
UV stabilised for longer life.  
Commonly used as a floor covering.

**Width:** 3.6m.  
**Roll Length:** 300m.  
**Thickness:** 70µm (280g).  
**Fold:** \*DF.

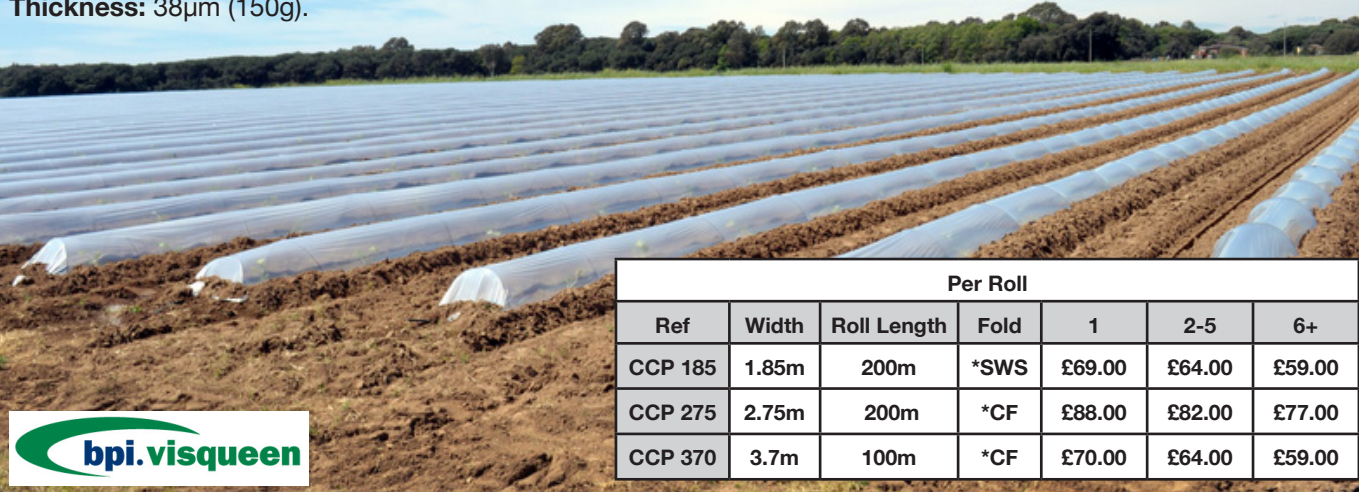


Ref	Width	Roll Length	Thickness	Fold	Price Per Roll		
					1-4	5-9	10+
WFP 360	3.6m	300m	70µm (280g)	*DF	£213.00	£199.00	£186.00

## Cloche Film

This 150g clear polythene provides protection for your crops in the early season. A very economical way to protect your crops against the elements and it also helps with the warming of the soil, therefore crops can be harvested earlier and higher yields can be achieved.

**Thickness:** 38µm (150g).



Per Roll						
Ref	Width	Roll Length	Fold	1	2-5	6+
CCP 185	1.85m	200m	*SWS	£69.00	£64.00	£59.00
CCP 275	2.75m	200m	*CF	£88.00	£82.00	£77.00
CCP 370	3.7m	100m	*CF	£70.00	£64.00	£59.00

## Propagation Film



Used to cover seed beds during sprouting and propagation.  
**Clear:** More commonly used in lower light conditions (early season).  
**White:** Often used to provide shade.

**Thickness:** 20µm (80g).

White Propagation Film						
Ref	Width	Roll Length	Fold	1	2-4	5+
PFW 362	3.6m	250m	*CF	£133.32	£121.20	£111.10
Clear Propagation Film						
PFC 401	4.0m	100m	*CF	£82.00	£74.55	£68.33

\*SWS = Single Width Sheet (unfolded) \*CF = Centre Folded (Folded once before rolling) \*DF = Double Folded (Both sides folded in to the centre)

Please Note: All prices exclude VAT



## General Purpose Polythene



Clear UV stabilised polythene.

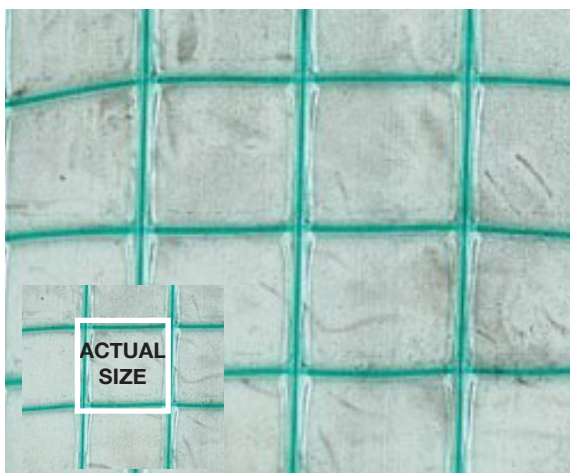
**Thickness:** 150µm (600g).

				Price per Roll
Ref	Width	Length	Fold	1
PCC 2A	2m	200m	SWS*	£235.00

## Price per Running Metre

Ref	Sheet Width	Fold	1-24	25-49	50-74	75-99	100-124	125-149	150-174	175-200
PCC 2	2m	SWS*	£1.89	£1.80	£1.71	£1.64	£1.57	£1.50	£1.44	£1.38

## Tear Resistant Reinforced Polythene (Monarflex® Ultra 250)



12mm x 12mm grid pattern reinforcing thread. Widely used as a damp-proof membrane.

**Colour:** Clear with internal green thread.

**Light Transmission:** 85%-90%

**Thickness:** 1000g (250µm).

**Weight:** 265g/m²

Ref	Width	Length	Price Per Roll
MRP 201	2m	25m	£139.00

## Insulation Bubble Film (UV Stabilised)



Clip this large bubble insulating film to the insides of your polytunnel or greenhouse to protect your crops in cooler temperatures.

- 25mm (1") bubbles.
- High clarity light transmission
- UV stabilised for long life.
- 3 ply (double skin).
- Polytunnel fixings below.



		Prices		
Ref	Description	1-4	5-9	10+
BFM 155	1.5mtr x 50m	£68.74	£62.49	£57.28
BFM 245	2.4mtr x 50m	£99.90	£91.70	£84.60

## Omega Spring Clips

Used to fasten polythene sheeting to steel tubes.  
Can be quickly removed, and re-attached.

			Price		
Ref	Clip Diam.	Fits Tube Up to	1-99	100-499	500+
SCS 35	30mm	35mm	£0.50	£0.35	£0.20
SCS 40	35mm	40mm	£0.55	£0.39	£0.22
SCS 50	45mm	50mm	£1.25	£0.88	£0.50
SCS 60	55mm	63mm	£2.72	£2.04	£1.70





# Cloche Hoops

## Wire Cloche Hoops



Made from heavy-duty, high-tensile, galvanised wire (4mm diameter). Wire polythene cloche hoops are widely used by commercial growers as a low cost crop cover. They have an integrated eye within the wire which allows you to fasten down your polythene cover with twine.

The hoops are available in two sizes to make either a 75cm (30") or 90cm (36") wide span. We suggest you space the hoops at 2ft - 3ft apart and use a wooden stake at each end to knot your cover around. Both sizes use the 1.85m (72") cloche film (see page 55).

**NOTE:** Hoops are supplied straight, and are flexed into shape when installing.

Ref	Width	Distance Over Arch	Pack Quantity	Price / Pack
CHP 075	75cm	1.2m	50	£59.85
CHP 100	90cm	1.5m	50	£67.45

## Super Cloche Hoops

Designed to give long lasting protection. For ventilation simply loosen the sheet fixing band and slide the polythene up the side of the frame.

Can be covered with various materials including polythene, shade netting, bird protection net, fleece cover etc. Strong, simple to use and easy to transport.

Extra strong footing tubes that feature a cloche film securing hook.

Made from 25mm pre-galvanised steel tube.

**For best results, space the hoops 1-2m apart depending on wind exposure.**



Footing Tubes

Ref	Width	Height	Distance Over Hoop	Price
SCH 150	1.5m (5ft)	80cm	2.5m	£15.00
SCH 200	1.85m (6ft)	90cm	3.2m	£18.00
SCF 001	One Pair of Footing Tubes			£19.00





# Thermal / Energy Screens

Screens are used more and more in greenhouses. They can limit the loss of energy, provide a more even climate in the greenhouse, reflect excess sunlight or even darken the greenhouse.

We divide screens into the following categories...

Energy Saving Screens.  
Shading Screens.  
Combined Shading & Energy Saving Screens.  
Light Diffusing Screens.  
Assimilation and Black-Out Screens.  
Vertical Screens.



In single screen greenhouses the combined shading & energy saving screens (PH44 FP-PH77 FP & PhormiTex 44-77) are ideal for shading in summer and energy saving in winter.

As a consequence of advanced automation and the use of assimilation lighting, the risk of fire in greenhouses has increased significantly. If a greenhouse fire is able to spread via the screen, the consequences can be serious. This is why Bonar Technical Fabrics has developed a totally new range of flame retardant screens under the name PhormiTex. PhormiTex screens combine already proven screen qualities with a certified fire retardancy. Bonar PH screens (PH44 FP-PH77 FP) have a basic fire retardancy but do NOT carry a British or EU standard.



Available in a range of standard widths, although any bay width can be catered for.

6 year European-wide guarantee against UV degradation.  
Low shrinkage - Less than 1% material shrinkage.

Prices vary depending on quantity and current exchange rates. Please phone for a quote. Samples and specification sheets available on request.

We can offer the full range of Bonar TF screens. Below is a list of typical screens being used for the UK climate.

**Supplied on rolls - unfolded.**

## Energy Saving Screens

Name	Colour	Light Transmission	Energy Saving	Shading	Flame Retardant	Available Roll Widths	Prices From / m <sup>2</sup>
PhormiTex Clear	Translucent	89%	47%	11%	Yes	3.25, 4.30, 4.80 & 5.30m	£0.97
PhormiTex Bright	Translucent	87%	47%	13%	Yes	3.25, 4.30, 4.80 & 5.30m	£1.23
PhormiTex Super	Translucent	85%	47%	15%	Yes	3.25, 4.30, 4.80 & 5.30m	£1.23

## Energy Saving and Shade Screens

PH 44 FP	Translucent / Foil	55%	52%	45%	No	3.35, 4.30, 4.80 & 5.30m	£1.91
PH 55 FP	Translucent / Foil	45%	58%	55%	No	3.35, 4.30, 4.80 & 5.30m	£1.96
PH 66 FP	Translucent / Foil	35%	63%	65%	No	3.35, 4.30, 4.80 & 5.30m	£2.00
PH 77 FP	Translucent / Foil	25%	68%	75%	No	3.35, 4.30, 4.80 & 5.30m	£2.03
PhormiTex 44	Translucent / Foil	55%	50%	45%	Yes	3.35, 4.30, 4.75 & 5.25m	£1.98
PhormiTex 55	Translucent / Foil	45%	55%	55%	Yes	3.35, 4.30, 4.75 & 5.25m	£2.03
PhormiTex 66	Translucent / Foil	35%	61%	65%	Yes	3.35, 4.30, 4.75 & 5.25m	£2.05
PhormiTex 77	Translucent / Foil	25%	66%	75%	Yes	3.35, 4.30, 4.75 & 5.25m	£2.11



## Polytunnel Roof Vent



Easy to install roof vent, with simple pull-cord operation. Used to release excessive heat build-up in your polytunnel without having to open the doors. The spring closing design allows it to be closed tight shut when ventilation is not required. Useful in longer polytunnels where heat can build-up in the middle, or when the door needs to be shut.

As a general guide we would recommend one vent for every 75m<sup>3</sup> of air volume.

Simply cut out a 30-35cm hole in your polytunnel cover, insert the fan from the inside in a rotating motion, and clip on to the support bars. It is important that the hole you make in the polythene is smaller than the diameter of the fan casing. This creates a 3"-4" (75-100mm) high polythene seal around the fan casing creating an air-tight seal.

**Weight:** 2.3kg  
**Top Outlet Dim.** 41cm  
**Base Inlet Diam.** 48cm  
**Overall Width:** 53cm  
**Height:** 28cm

Ref	Description	Price
PRV 01	Polytunnel Roof Vent	£59.00
SBK 32	Support Bar Kit for 32mm Hoop Diam.	£39.00
SBK 50	Support Bar Kit for 50mm Hoop Diam.	£39.00
SBK 60	Support Bar Kit for 60mm Hoop Diam.	£39.00

## Climate Controller

This precise, adaptable and dependable temperature controller is the ideal partner to any of the air circulation fans offered in our brochure, allowing for maximum economy and temperature control.

This robust unit can also be configured to work with heaters in winter. It's a fantastic way of keeping simple, but accurate control over your growing environment.



- Function for ventilation in summer
- Function for heating in winter
- 1 Single temperature dial control
- From 0° to 30° control
- Temperature sensor on a 25m cable
- Thermostat for heating and cooling
- Fan appliances output load 1kW inductive
- Heater appliances output load 3kW resistive
- Can run up to five 200w fans or one 3kW electric heater
- Splash proof IPX4

## Variable Fan Speed Control

Simply loop the fan's power supply through this switch for variable air flow.



Ref	For Fan Size	Price
FSC 15	Up To 1.5 Amps	£59.95
FSC 30	Up To 3 Amps	£69.95
FSC 60	Up To 6 Amps	£79.95

Ref	Description	Price
FCP 02	Thermostat Control Panel c/w temp. probe	£195.00

Please Note: All prices exclude VAT



## Large Air Circulation Fan



Galvanised and powder coated for longer life. Supplied with support chains.

**Single Phase:** 220v (50Hz).  
**Fan Speed:** 1,400rpm.  
**Air Flow:** 5,500m<sup>3</sup>/hr (3,240cfm).  
**Weight:** 11kg.  
**Dimensions:** 47cm diam. x 35cm length.

**Protection:** IP55.  
**Colour:** White.  
**Power:** 235W (max 1.4A).  
**Distance:** 45m.  
**Guard:** 11mm grill

Ref	Description	Price		
		1-4	5-9	10+
ACF 001	Large Air Circulation Fan	£249.00	£225.00	£199.00

## Medium Air Circulation Fan

Stainless steel fan casing with aluminium blades. Supplied with support chains.

**Single Phase:** 220v (50Hz).  
**Fan Speed:** 1,400rpm.  
**Air Flow:** 2,880m<sup>3</sup>/hr (1,700cfm).  
**Weight:** 8.75kg.  
**Protection:** IP55.

**Colour:** Stainless Steel.  
**Dimensions:** 43cm diam. x 40cm length.  
**Power:** 145W.  
**Distance:** 15m.



Ref	Description	Price
ACF 003	Medium Air Circulation Fan	£159.00

## Twin-Skin Inflation Fan



Inflation fan for blowing air between the two polythene covers of a twin-skinned polytunnel.

**Twin skinning can reduce heating losses by 30%.**

A fan mounting bracket is supplied with Connection Kit (sold separately). Several roofs, sides, ends or 'D' panels can be inflated from a single fan – ask for details. For linking two sections together use the linking kits.

The fan has an inbuilt adjustable pressure switch, which starts and stops the fan as required without the need for intervention, ensuring that the air pressure between the polythene sheets is always maintained.

**Power:** 220v (single phase), 70W, 0.5A

**Air flow:** 300m<sup>3</sup>/hr (1,765cfm)

**Weight:** 2.9kg

**Effective (cover size):** 1,000m<sup>2</sup> (10,765ft<sup>2</sup>)

**Adjustable pressure range:** 50-200pa

Ref	Description	Price
TSK 01	Inflation Fan (single phase)	£149.00
TSK 02	Inflation Fan Connection Kit	£49.00
TSK 07	Twin-Skin Linking Kit	£29.00

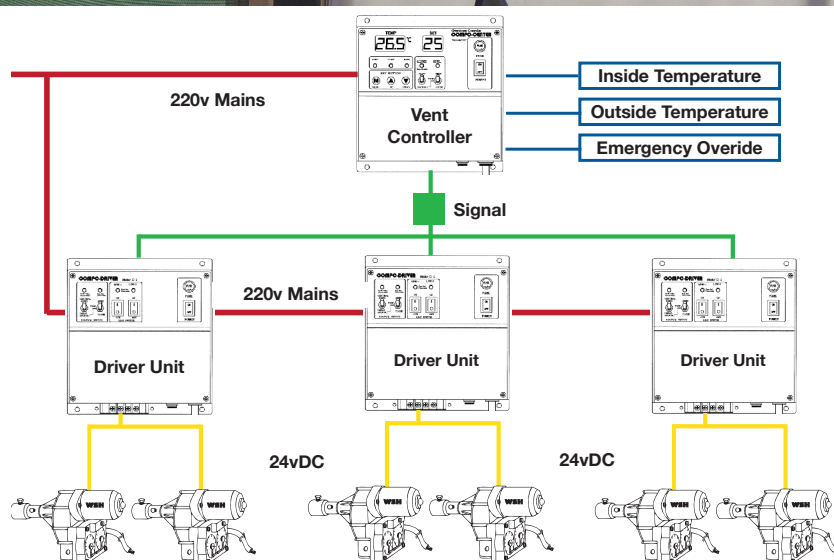




Northern Polytunnels has brought together selected components to allow you the full automation of your ventilation systems.

There is a simple swap from your existing manual gearbox to the new 24vDC reversing motor. You will need a driver unit to operate the motors and the automatic vent controllers to enable automatic operation.

Each driver unit can control two motors and the automatic vent controller can control multiple driver units.



### Automatic Vent Controller (SVA 05)

This micro-computer has three inputs, enabling it to make decisions based on the greenhouse air temperature, outside air temperature (or rainfall with an optional rain sensor), and an emergency high temperature sensor.

Under normal operation you would set the desired greenhouse temperature. When the temperature exceeds this the vents start to open in increments. A 'waiting time' can be programmed between the increments allowing the temperature to stabilise before further operation. Likewise, when the greenhouse temperature starts to fall below the desired temperature, the same happens in reverse as the vents close. A buffer can be set, of say 3°C of the desired temperature, where operation is delayed until further fluctuations occur.

In the event of a sensor failure, an 'emergency' high temperature sensor will command the vents.

An outside temperature sensor (supplied) or rain sensor (optional extra) can also be used to make ventilation decisions.

#### Unit Includes:

- Inside temperature sensor on 20m cable.
- Outside temperature sensor.
- Emergency high temperature sensor.
- Connection box for signal driver unit / control panel.



The temperature set point and current temperature are permanently displayed. Proportional control across the full temperature range of +5 to +45°C.



## Motor Driver Unit (SVA 01 & SVA 20)

These driver units (local controllers) can operate up to two 24vDC motors, either independently or together. Switch control for forward and reverse control operation when in manual mode. The auto function can be switched on if an automatic vent controller is connected, allowing fully automatic operation of your vents. A single auto vent controller can command any number of driver units. Each driver unit can operate 1 or 2 motors.

**Requires a 220-240vAC power input which is transformed down to a 24vDC output.**

Two models available, a 50W model for the 40Nm motors and a 100W model for the 90Nm and 150Nm motors. Each driver unit operates 1 or 2 vent motors (under normal torque operation).



**Power Input:** 240v (single phase)

**Power Output:** 2 x 24vDC

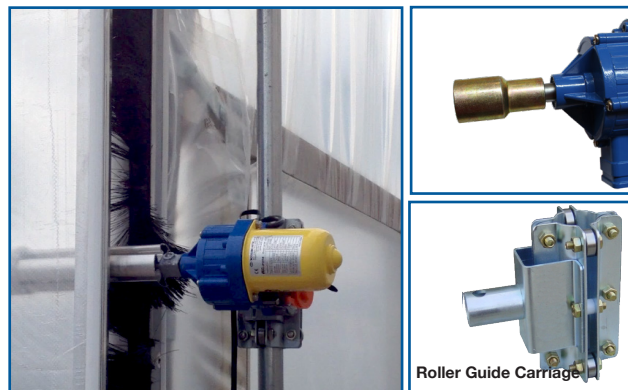
## Polytunnel Vent Motor (SVA 07, SVA 17 & SVA 18)

24vDC driven, planetary geared, motorised vent winder with in-built limit switch. Multiple applications for both fixed polytunnels and fruit-growing field tunnels, including roll-down side vents, end ventilation screens, rack & pinion vents, roof vents etc.

Easily installed to existing ventilation systems by attaching the motor's drive shaft to the vent drive tube using the couplings provided. For roll-up/roll-down screens the motor can then be either attached to a vertical support tube (guide tube) using a roller guide carriage, or attached directly to a pivoting telescopic arm. Vertical guide tubes and telescopic arms can also be supplied – phone for details.

Three models available, 40Nm, 90Nm and 150Nm (normal operating loads). As a general guide, every metre of ventilation screen requires 1Nm of torque, therefore a 40m roll-down screen would require a 40Nm motor. Phone our sales team with your requirements before ordering.

Supplied with a drive tube coupler (26mm I.D. x 36mm O.D.) to suit a range of drive tubes, but we can make couplers to suit any size of drive tube.



Roller guide carriages are available for mounting on to a 32-35mm O.D. guide tubes, or alternatively the motor can be mounted directly on to a pivoting telescopic arm.

These motors require a driver unit for operation. One driver unit can operate up to two motors under normal operation loads. For fully automatic (temperature based) operation an automatic controller is also required, unless you're using your existing control panel.

**Bare Drive Shaft Diam:** 16mm OD. **Drive Shaft Coupling:** 26mm ID / 36mm OD. **Electrical Input:** 24vDC +/- 10%.

Ref	Electric Supply	Normal Operation*			Limit Range (no. of turns)	Weight	Recommended Driver Unit**
		Input Current	RPM	Torque			
SVA 07	24vDC	2.6A (62W)	3.5	40Nm	1-35	2.4 kg	50W (SVA 01)
SVA 17	24vDC	3.5A (84W)	2.7	90Nm	1-55	4.0 kg	100W (SVA 20)
SVA 18	24vDC	3.3A (80W)	1.6	150Nm	1-33	5.2 kg	100W (SVA 20)

\* The above data is for normal operation. The max. operation loads are 30-50% higher.

\*\* One driver unit can operate up to 2 motors under normal operating loads.

Ref	Description	Price
SVA 05	Automatic Vent Controller	£349.00
RSS 01	Rain Sensor (optional)	£149.00
SVA 01	50W Motor Driver Unit (220vAC/24vDC)	£299.00
SVA 20	100W Motor Driver Unit (220vAC/24vDC)	£399.00
SVA 07	40Nm Vent Motor (24vDC)	£159.00
SVA 17	90Nm Vent Motor (24vDC)	£199.00
SVA 18	150Nm Vent Motor (24vDC)	£299.00
SVA 08	Roller Guide Carriage (32-35mm)	£65.00
SVA 24	Interface box for Priva Controller	£89.00





Controller c/w temp. sensor.



Side and roof ventilation diagram.



220vAC Electric Motor.

As well as our 24vDC range of motors on the previous page we also offer 220vAC motors for direct mains power connection, removing the need for a power transformer (motor driver unit). Installation to your roll-up side ventilation screen is carried out in exactly the same way, but the power supply comes directly from the control panel rather than via a power transformer thus reducing costs. Each controller can operate two motors, making them ideal for polytunnels with two roll-up ventilation screens. Also used to operate rack & pinion vents. Easily installed to existing roll-up side ventilation screens by attaching the motor's drive shaft on to the end of the existing drive tube using the couplings provided. Alternative coupling sizes can be supplied. The motor is supported on a vertical support tube using a roller guide carriage, or attached directly on to a pivoting telescopic arm.

- Accurate limit switch
- High torque
- Low noise
- IP55 rated motors
- Double limit switch protection

220vAC Electric Motor					
Ref	Electric Supply	Input Current	RPM	Torque	Weight
SVA 22	220vAC	0.46A (60W)	2.8	60Nm	3.5kg

**Bare drive shaft diam.:** 20mm OD.

**Drive shaft coupler:** 35.2mm ID to take 35mm OD drive tube. Supplied with a 28.2mm reducing sleeve to take 28mm OD drive tube.

The controller works on a temperature basis by taking a temperature reading from a sensor on a 20m lead. When the inside temperature reaches a predetermined point (say 20°C) the motors starts to roll-up the ventilation screen. This can be carried out in small pre-set increments with an adjustable dwell time between each increment, thereby preventing big swings in temperature. So rather than fully opening and closing, the motors slowly creeps up and down maintaining a harmonious inside temperature.

Ref	Description	Price
SVA 22	220vAC Electric Motor	£199.00
SVA 23	25mm Roller Guide Carriage	£39.00
SVA 30	Controller c/w Temp. Sensor	£249.00

Please Note: All prices exclude VAT



## Polytunnel Roof Extraction Fan



Designed to exhaust excessive heat from polythene clad greenhouses. Usually used with a control panel for automatic operation. Simply cut out a 30-35cm hole in your polytunnel cover, insert the fan from the inside in a rotating motion, and clip on to the support bars. It is important that the hole you make in the polythene is smaller than the diameter of the fan casing. This creates a 3"-4" (75-100mm) high polythene seal around the fan casing creating an air-tight seal.

The number of fans required depends upon the volume of warm air you want to expel and how quickly you want to expel it. As a general guide we would recommend a maximum of one fan for every 350m<sup>3</sup> of air space – this would allow up to 13 air changes per hour. Typically, one fan would be required for every 35ft to 80ft of polytunnel, depending on the width, height and existing ventilation systems. For a 30ft (9.14m) wide polytunnel this would be approx. 1 fan for every 36ft (11m) length of polytunnel. Therefore a 30ft wide x 110ft long polytunnel would require a maximum of 3 fans. Even if only a single fan was installed you would still feel a significant difference as you would still achieve 4-5 complete air changes per hour.

Each control panel (with temperature sensor on a 20m lead) can operate up to 5 fans. For larger multi-span polytunnels you may want to control several zones independently, as different areas within the greenhouse may heat up quicker than others.

**Weight:** 7.5kg

**Top diameter at cowl:** 42cm

**Overall diameter at base:** 57cm

**Overall height:** 39cm

**Air flow:** 4,600m<sup>3</sup>/hr (2,700cfm)

**Wind Speed:** 10.8m/sec

**RPM:** 1390

**Power Supply:** Requires single phase 220-240v (50 Hz)

**Motor:** 200w (0.9A)

**Protection:** IP55 | Comes with a mesh guard on the inlet



Ref	Description	Price			
		1-4	5-9	10-19	20+
PRF 01	Polytunnel Extraction Fan	£269.00	£249.00	£229.00	£209.00
FCP 02	Control Panel with Thermostat	£199.00	-	-	-
SBK 32	Support Bar Kit for 32mm Diam. Hoop	£39.00	-	-	-
SBK 50	Support Bar Kit for 50mm Diam. Hoop	£39.00	-	-	-
SBK 60	Support Bar Kit for 60mm Diam. Hoop	£39.00	-	-	-





Fan-Assisted Sulphur Vapouriser - Rear



Temperature regulated sulphur vapouriser which heats the sulphur to just the right temperature (145-155°C), thus preventing the production of oxides of sulphur. Large hot plate distributes the heat evenly across the whole base of the pot. Protects crops from botrytis, mildew and black spot in greenhouses.

Will also prevent the spread of other fungal diseases, as spores cannot spread in a sulphurous environment. Also inhibits a number of greenhouse pests such as spider mite. Vapourises less than 1g/hr. Half a cup will hold approx. 150g of sulphur, therefore half a cup will last in excess of 150 hours.

### Sulphume Sulphur Vapouriser



Coverage will depend on the susceptibility of the crop to fungal disease and the severity of the fungal problem. Typically from 100 vapourisers per hectare for roses and strawberries, 50 per hectare for begonias and gerberas and 15 per hectare for tomatoes and peppers.

**Power:** 220-240v (single phase)

**Coverage:** 100m<sup>2</sup>-1,000m<sup>2</sup> (10-100 units per hectare).

**Material:** Stainless steel body, handle and pot.

**Size:** 13cm diam. x 20cm high.

**Wattage:** 50 watts.

**Cable:** 2.75mtr fitted with a plug.

Sulphur **NOT** included – available on request.

### Fan-Assisted Sulphur Vapouriser

**Power:** 220-240v (single phase)

**Material:** Stainless steel body and vapourising pot.

**Cable:** 2.75mtr fitted with a plug.

**Size:** 27cm diam. x 46cm length x 45cm overall height

**Fan Volume:** 500cfm (850m<sup>3</sup>/hr).

Using the same technology as our standard sulphur vapouriser, but with the added benefit of an on-board fan to disperse the sulphur vapour evenly and quickly around the greenhouse environment. The 500cfm fan can be operated as a fan only or in conjunction with the sulphur vapouriser.



Ref	Description	Price				
		1-9	10-24	25-49	50-99	100+
VAP01	Sulphume Sulphur Vapoursier	£69.00	£54.58	£50.15	£47.20	£44.25
VAP02	Fan-Assisted Sulphur Vapouriser	£239.00	£227.00	£215.00	203.00	POA



## Pre-Made Heating Mats

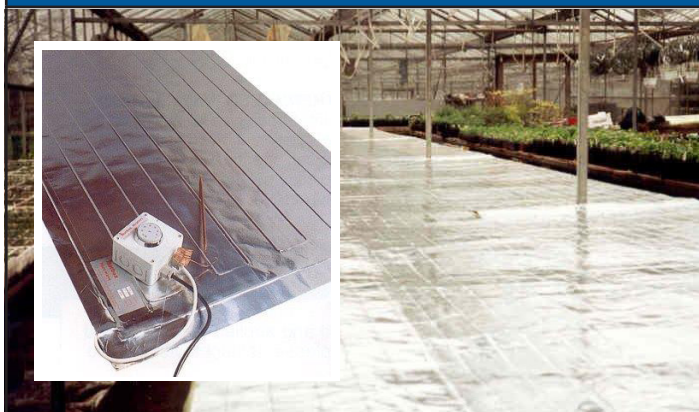
For those of you requiring something a little smaller, why not consider one of our pre-made heating mats. These are only available in the sizes listed below, and are supplied complete with an electronic thermostat.



Available from stock.

Ref	Dimensions	Power	Price
EHM 407	40cm x 75cm	65w	£95.00
EHM 401	40cm x 120cm	85w	£110.00
EHM 402	40cm x 200cm	157w	£130.00
EHM 601	60cm x 120cm	140w	£125.00
EHM 602	60cm x 200cm	263w	£160.00
EHM 102	100cm x 200cm	300w	£195.00

## Hotbox Heatwave



The Hotbox Heatwave is a made-to-measure bench heating system which encourages germination, propagation and growth of seedlings and cuttings by delivering constant, uniform heat to the base of seed trays and plant pots.

- Optimum growing temperature – precise thermostatic control from 6 to 38°C
- Easy to install – on the ground or on benches
- Energy efficient – inexpensive to run
- Durable construction – reliability built-in
- Flexibility- operate more than one Heatwave from a single thermostat control

## Installation

Installation is very simple. The Hotbox Heatwave Panel can be used on the ground or on any standard metal or wooden benching. Sand is not required, removing excessive loads from your benches. First lay approximately 30-50mm thick polystyrene as a base, (this ensures no heat is lost and that all heat is distributed into the soil trays above) then lay the Heatwave on top, cover with polythene and capillary

matting if desired to give more protection.

## Heat Distribution

The Heatwave root zone heating system is the only method available that can guarantee an even spread of heat across the entire surface. The heating element is laminated in sheets of foil, resulting in no cold or hot spots, just even temperatures. Each panel is calculated individually ensuring the correct balance of circuit resistance and positioning. The entire foil panel is connected to 'earth' offering complete safety. The seed trays are warmed from below and held at a constant temperature during the propagation process ensuring rapid and strong growth from seeds and cuttings. Two or more panels can be connected to one thermostat if desired (up to 20m<sup>2</sup> total) allowing the secondary unit to be switched off when not required.

Wattage is 150W per m<sup>2</sup>.

Thermostats are factory connected. The thermostat sensor is inserted into the root zone to measure soil or compost temperature.

**Made to order - please allow 2-4 weeks delivery.**

Heatwave Panels		Heatwave Accessories	
Size	Price per m <sup>2</sup>	Description	Price
0 - 2.99 m <sup>2</sup>	£69.01	Thermostat - Standard	£80.53
3 - 4.99 m <sup>2</sup>	£48.57	Thermostat - Electronic	£113.76
5 - 9.99 m <sup>2</sup>	£37.05	Switch	£24.26
10 - 20 m <sup>2</sup>	£34.50	Extra Cable	£3.14



# Horticultural & Agricultural Heaters

## Heater Size Chart

Space To Be Heated	Temperature Rise Required				BTU Capacity Required 1,000 Btu = 0.293kW
	11°C (20°F)	16°C (30°F)	22°C (40°F)	27°C (50°F)	
140m³ (5,000 ft³)	14,000 Btu	20,000 Btu	27,000 Btu	34,000 Btu	
200m³ (7,000 ft³)	19,000 Btu	28,000 Btu	38,000 Btu	47,000 Btu	
280m³ (10,000 ft³)	27,000 Btu	40,000 Btu	54,000 Btu	67,000 Btu	
425m³ (15,000 ft³)	40,000 Btu	60,000 Btu	80,000 Btu	100,000 Btu	
565m³ (20,000 ft³)	54,000 Btu	80,000 Btu	107,000 Btu	133,000 Btu	
850m³ (30,000 ft³)	80,000 Btu	120,000 Btu	160,000 Btu	200,000 Btu	
1,420m³ (50,000 ft³)	133,000 Btu	200,000 Btu	266,000 Btu	333,000 Btu	
2,830m³ (100,000 ft³)	266,000 Btu	400,000 Btu	532,000 Btu	666,000 Btu	
4,250m³ (150,000 ft³)	400,000 Btu	600,000 Btu	800,000 Btu	1,000,000 Btu	
5,660m³ (200,000 ft³)	530,000 Btu	800,000 Btu	1,064,000 Btu	1,332,000 Btu	
7,080m³ (250,000 ft³)	665,000 Btu	1,000,000 Btu	1,332,000 Btu	1,665,000 Btu	
8,500m³ (300,000 ft³)	800,000 Btu	1,200,000 Btu	1,600,000 Btu	2,000,000 Btu	

## Non-Electric Convactor Heaters



Normally connected to two gas bottles using an auto change-over valve (with a 37mb regulator) see page 72.

These are the best and most advanced horticultural convactor heaters available. Specifically designed for horticultural use. Ideal where no mains power is available (or cannot be relied upon). Often used in conjunction with air circulation fans to assist the distribution of the warm air. If only heating a small area the heat can be projected by convection alone. A small thermal current is generated from the pilot flame which operates the gas valve and thermostat, no mains electric power required, yet still very effective.

- Wide footprint for extra stability.
- Fully galvanised body for longer life.
- Stainless steel burners which are also shielded from draughts.
- Piezo' ignition (for pilot flame) fitted with flame failure detection for extra safety.
- Remote thermostat fitted to the end of a 6mtr cable. This allows you to measure the temperature where the plants are, and not just next to the heater.
- Quick response rotary thermostat to 2°C accuracy, 3°C to 30°C range.
- **Optional digital thermostat** to 1°C accuracy, -5°C to 30°C range. This extra accuracy and lower temp. range will save enough fuel to more than pay for itself over a single winter/spring period. Easily fitted to existing heaters. **Supplied separately for £79.95 (ref: DTS 530)**
- Runs off propane (LPG). Natural gas models available (call for details).

Ref	Heat Output	LPG Consumption	Dimensions (W x D x H)	Approx. Frost Protection Area		Price (Inc. Delivery)
				Floor Area	Greenhouse Volume	
CHP 061	20,000btu/hr(6kW)	0.42 kg/hr	45cm x 20cm x 50cm	500ft² (46m²)	5000ft³ (140m³)	£380.00
CHP 012	40,000btu/hr (12kW)	0.84 kg/hr	72cm x 36cm x 82cm	1,000ft² (93m²)	10,000ft³ (280m³)	£625.00
CHP 024	40-80,000btu/hr (24kW)	0.84/1.68 kg/hr	72cm x 36cm x 82cm	2,000ft² (185m²)	20,000ft³ (560m³)	£690.00

Please Note: All prices exclude VAT





### Convactor Heater with 12v/240v Fan

This is the same as our 40-80,000 Btu (12-24kW) convactor heater (**page 65**) with the addition of an air circulation fan and transport trolley.

The fan can be powered from 240v mains electricity or from a 12v battery (NOT supplied) via a built-in inverter. In the event of a power failure a battery can be mounted on the battery shelf which will run the fan for up to 12 hours before needing to be re-charged, making this the ideal back-up heater. Also ideal for heating areas where there is no mains power supply.

The heater has a fan controller which allows the fan to run continuously, or just when the heater is running. This function extends the battery life two-fold before recharging. The battery can operate the fan at night and then be re-charged during the day. Alternatively, having a spare battery on charge would be useful. The battery should be removed from the heater during charging.

Two selectable output settings, 40,000btu (12kW) or 80,000btu (24kW). Mounted on a transport trolley for easy transporting. The 1,000cfm (ft<sup>3</sup>/min) fan will move the warm air up to 24m (80ft).

Fan will operate from 220-240v mains electric supply or 12v DC car/leisure battery. Quick response thermostat to 1°C accuracy.

#### Runs off propane (LPG).

Supplied with 3m gas hose and 37mb pressure regulator.

Natural gas models available (call for details).

Ref	Heat Output	LPG Consumption	Fan Size	Approx. Frost Protection Area		Price (Inc. Delivery)
				Floor Area	Greenhouse Volume	
CHF 024	40-80,000btu/hr (24kW)	0.84/1.68 kg/hr	3,400m <sup>3</sup> /hr (1,000cfm)	185m <sup>2</sup> (2,000ft <sup>2</sup> )	20,000ft <sup>3</sup> (565m <sup>3</sup> )	£960.00

### 2.8kW Heater with Mechanical Thermostat



This 2.8kW heater can be position at ground level or suspended from above. It should provide frost protection for a polytunnel or glasshouse up to 210sq ft (10ft x 20ft).

Its stainless steel casing is splash proof protected (IPX4). Features capillary action thermostat and also has summer time mode, where rising temp triggers fan (only) operation to provide air circulation.

**Power Supply:** 230v (main power) supply (max 13A input).

**Heat Settings:** 1.0kW, 1.8kW or 2.8kW.

**Temperatures:** Can achieve 0-26°C.

**Air Flow:** 53w fan will circulate 460m<sup>3</sup> of air per hour.

CE approved with 2 year warranty.

Ref	Dimensions	Price
EFH 28	41cm x 22cm x 33cm	£199.00



# Concept Heaters (Direct and In-Direct Fired)



Requires single phase 230vAC power supply (3-phase can be supplied).



Designed and developed with outstanding, unique features. The heavy-duty, IP55 rated air circulation fan is mounted on the under-side, taking in the coldest air whilst preventing the fan blades from collecting dust, as happens with side and top mounted fans. Fan is selectable, allowing for either continuous operation or to run only when the heater is firing.

The externally mounted burner is supplied to burn either oil (kerosene or red diesel) or gas (natural or LPG), and are interchangeable, allowing you to switch to the lowest cost fuel (providing you have both an oil and a gas burner). If your heater is positioned further than 15m from your oil tank you will probably require an air trap fitting to your heater. The same applies where the heater's fuel inlet is higher than the oil tank outlet. Please state this when requesting a quotation.



The burner has a self-diagnostic control for ease of service/set-up, and the complete burner can be easily removed and sent away for servicing without the need for an engineer to visit your site. This 'quick-release' feature means any new type of burner can be easily fitted at a later stage making this heater future proof.

The control panel is mounted in an IP65 rated enclosure, and comes with a digital temperature control with remote sensor. Alternatively, control relays can be fitted for computer control.



**If positioned over 15m from fuel tank or where the heater inlet is higher than the oil tank outlet, an air trap is required with the heater. Please advise when ordering.**

Available in three sizes – 75kW, 100kW or 120kW.

Both direct and in-direct fired models available - See facing page for details.

**Full nationwide installation service offered.**

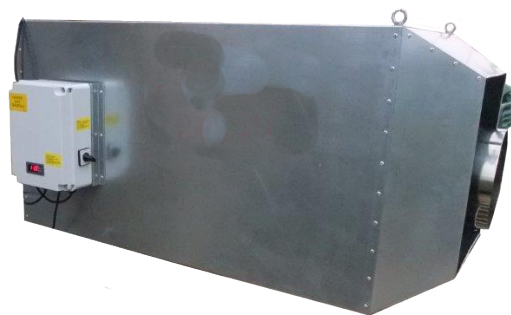


# Concept Heaters (Direct and In-Direct Fired)

## Direct Fired Models

The main body is galvanised, for long life, and has removable covers allowing quick and easy internal access. The extra-long, stainless steel combustion chamber keeps the body of the flame within the surrounds of the heater. It also features an after-burn cassette to ensure cleaner combustion, a worthwhile advantage considering the bi-products of the combustion process remain within the building.

For the natural gas models we specify ½" gas hose for the 75kW and 100kW heaters, and ¾" for the 120kW unit. For propane (LPG) heaters we recommend using a 2 bar, two bottle changeover valve with a 37mb pressure regulator fitted at the heater. This will ensure the heater receives the fuel at precisely the correct pressure. 100% efficiency with clean combustion. Direct-fired heaters enrich CO2 levels.



**Single-Phase 220v power supply required.**  
3-phase models available on request.

**Extras:** Air duct kit, which brings clean air from outside of the building straight to the burner for even cleaner combustion, sling kit for suspending the heater, floor stand on which to sit the heater, auto changeover valves, regulators, hose etc. **See page 70.**

### Direct Fired Heaters

Ref	Fuel Type (consumption)	Heat Output	Fan Size	Price (Inc. Delivery)
DFH 751	Gas	75kW (255,000Btu)	6,000m³/hr	£2,290.00
DFH 752	Kerosene (9.6ltr/hr)	75kW (255,000Btu)	6,000m³/hr	£1,690.00
DFH 101	Gas	100kW (340,000Btu)	6,500m³/hr	£2,410.00
DFH 102	Kerosene (10.7ltr/hr)	100kW (340,000Btu)	6,500m³/hr	£1,865.00
DFH 121	Gas	120kW (410,000Btu)	7,500m³/hr	£2,520.00
DFH 122	Kerosene (11.3ltr/hr)	120kW (410,000Btu)	7,500m³/hr	£2,120.00

## In-Direct Fired Models

The main body of the heater is galvanised, and has removable covers allowing quick, easy maintenance and access to the combustion chamber to allow for periodically changing the stainless-steel sacrificial heat shield.

The flame is totally enclosed within the combustion chamber, with all the bi-products of combustion (waste gases) being completely exhausted from the building via the stainless steel flue (ordered separately). This ensures the highest levels of air quality. The air intake for the combustion process can be ducted from outside the building to ensure clean, efficient combustion, however this only applies in dusty situations such as commercial poultry houses.



**Single-Phase 220v power supply required.**  
3-phase models available on request.

85-92% efficiency (depending upon fuel type). For the natural gas models we specify ½" gas hose for the 75Kw and 100Kw heaters, and ¾" for the 120kW unit. Oil-fired models can use 28 or 35 second oil (kerosene or red diesel).

**Extras:** Flue kit (varies for each heater), sling kit for suspending the heater, floor stand on which to sit the heater, gas hose etc. For oil-fired heaters we can supply oil storage tanks and all the required fittings.

### In-Direct Fired Heaters

Ref	Fuel Type (consumption)	Heat Output	Fan Size	Price (Inc. Delivery)
IFH 751	Gas	75kW (255,000Btu)	6,000m³/hr	£3,090.00
IFH 752	Oil (9.6ltr/hr)	75kW (255,000Btu)	6,000m³/hr	£2,495.00
IFH 101	Gas	100kW (340,000Btu)	6,500m³/hr	£3,510.00
IFH 102	Oil (10.7ltr/hr)	100kW (340,000Btu)	6,500m³/hr	£2,910.00
IFH 121	Gas	120kW (410,000Btu)	7,500m³/hr	£3,920.00
IFH 122	Oil (11.3ltr/hr)	120kW (410,000Btu)	7,500m³/hr	£3,420.00



# Easy Clean, In-Direct Fired Cabinet Heaters



## Can be fitted with either gas or oil burner.

High efficiency cabinet heaters that ensure lower running costs.

Galvanised body for longer life, with front and rear removable panels for easy access and quick cleaning/maintenance.

Front and rear panels are split in to two halves allowing access to the heat exchanger and combustion chamber without having to disconnect the flue or remove the burner when carrying out maintenance, effectively cutting the service time in half.

- The heat exchanger has a matrix of tubes with wave swirls to ensure the maximum efficiency.
- Stainless steel combustion chamber with a replaceable sacrificial shield.
- All waste gases are flued outside – various flue kits supplied separately.
- 240v single phase (three phase available on request).
- Inverted heaters with bottom outlets.
- Waste oil and bio-fuel heaters.
- Alarm systems to warn of heater failure.
- Various heater control equipment.
- Fitted with heavy duty IP55 rated fans.
- Digital temperature control with thermostat fitted on a 10m cable.

Front mounted combination control with adjustable fan switch, burner modulation control for maximum efficiency, and safety cut-out from overheating.

- All enclosed in an IP65 rated case.
- Externally mounted burner which can be easily uncoupled and sent away for servicing.
- Horizontal rear flue outlet.
- Multi outlet top cowls.

## Options:

Poly-duct outlets.

Inverted heaters with bottom outlets.

Waste oil and bio-fuel heaters.

Alarm systems to warn of heater failure.

Various heater control equipment.

Standard flue kits comes with 1 tee, 2 x 1mtr lengths of pipe, and 1 rain cap (stainless steel) .

Ref	Fuel Type	Heat Output	Price (Inc. Delivery)
IFC150	Gas	44kW (150,000 Btu)	£3,520.00
IFC151	Oil	44kW (150,000 Btu)	£2,920.00
IFC200	Gas	58kW (200,000 Btu)	£3,925.00
IFC201	Oil	58kW (200,000 Btu)	£3,325.00
IFC300	Gas	88kW (300,000 Btu)	£4,030.00
IFC301	Oil	88kW (300,000 Btu)	£4,330.00
IFC400	Gas	117kW (400,000 Btu)	£4,790.00
IFC401	Oil	117kW (400,000 Btu)	£4,135.00
IFC500	Gas	146kW (500,000 Btu)	£5,145.00
IFC501	Oil	146kW (500,000 Btu)	£4,645.00

Ref	Standard Flue Kits	Flue Diam.	Price
SFK 01	For 44 - 88kW Heater	150mm (6")	£220.00
SFK 02	For 117 - 120kW Heater	175mm (7")	£235.00
SFK 03	For 146kW Heater	200mm (8")	£255.00

Please Note: All prices exclude VAT





### Orange Propane Hose



Orange propane hose sold per mtr. (Order the number of metres required and we will supply in one piece).

Ref	Size	Price
OGH 85	8mm (5/16") ID	£3.29

### Low Gas Gauge



Attaches between the regulator and the propane bottle. Shows when the gas level is low.

Ref	Description	Price
LGG 01	Low Gas Gauge	£19.00

### Pressure Regulator



37mb pressure regulator is required for all convector heaters.

Ref	Gas Flow Rate	Price
PRR 37	Up to 1.5kg / hr	£12.99
PRR 374	Up to 4kg / hr	£19.00

### Jubilee Hose Clips

To fit orange propane hose



Ref	Size	Price
WDC 002	1/2" (13-20mm)	£0.66

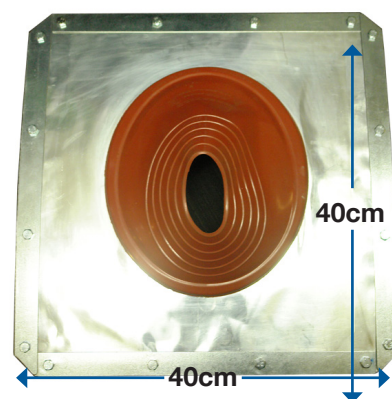
### Auto Change-Over Valve



Auto change-over valve for 2 propane cylinders, connects two gas bottles and switches over when one runs out. Including regulator and 8mm nipple.

Ref	Heater Size	Price
COV 03	Up To 24 kW (37mb)	£89.00
COV 04	Above 25 kW (2 Bar)	£109.00

### Polytunnel Flue Seal (Angled)



Allows the flue to pass through a polytunnel cover.

Clamps to the polythene on both sides.

Also available for glass - phone for details.

Flat seals are used when taking a horizontal flue through a polytunnel gable end wall.

Ref	Description	Price
PFS 01	Curved Seal for 5"- 8" (125 - 200mm) Flue	£120.00
PFS 02	Curved Seal for 7"-12" (175 - 300mm) Flue	£120.00
PFS 03	Flat Seal for 5"- 8" (125 - 200mm) Flue	£120.00



## Dehumidifier



**Recent installations in the UK are showing energy savings of 50%-60% as verified by Farm Energy**



### What does it do?

The Eco Climate Converter (ECC) is a unique, fully-proven de-humidification system which uses a highly concentrated saline solution (lithium chloride) to remove excess humidity from your greenhouse atmosphere.

The ECC removes the need to vent excessive humidity, eliminating all energy and CO<sup>2</sup> losses associated with venting.

As the humidity is lowered, crop transpiration becomes stabilized, further reducing the need to actually lower the humidity, harmonising the environment and reducing plant stress.

### Running Costs?

The primary energy input comes from your existing hot water heating system. A hot water supply between 65°C and 85°C is fed in to the ECC. Once the heat from this water has been used to recharge the saline solution it is then returned to your heating system. The small amount of heat which is absorbed during this process is returned (in full) to the greenhouse environment as warmed air, making the energy cost ZERO.



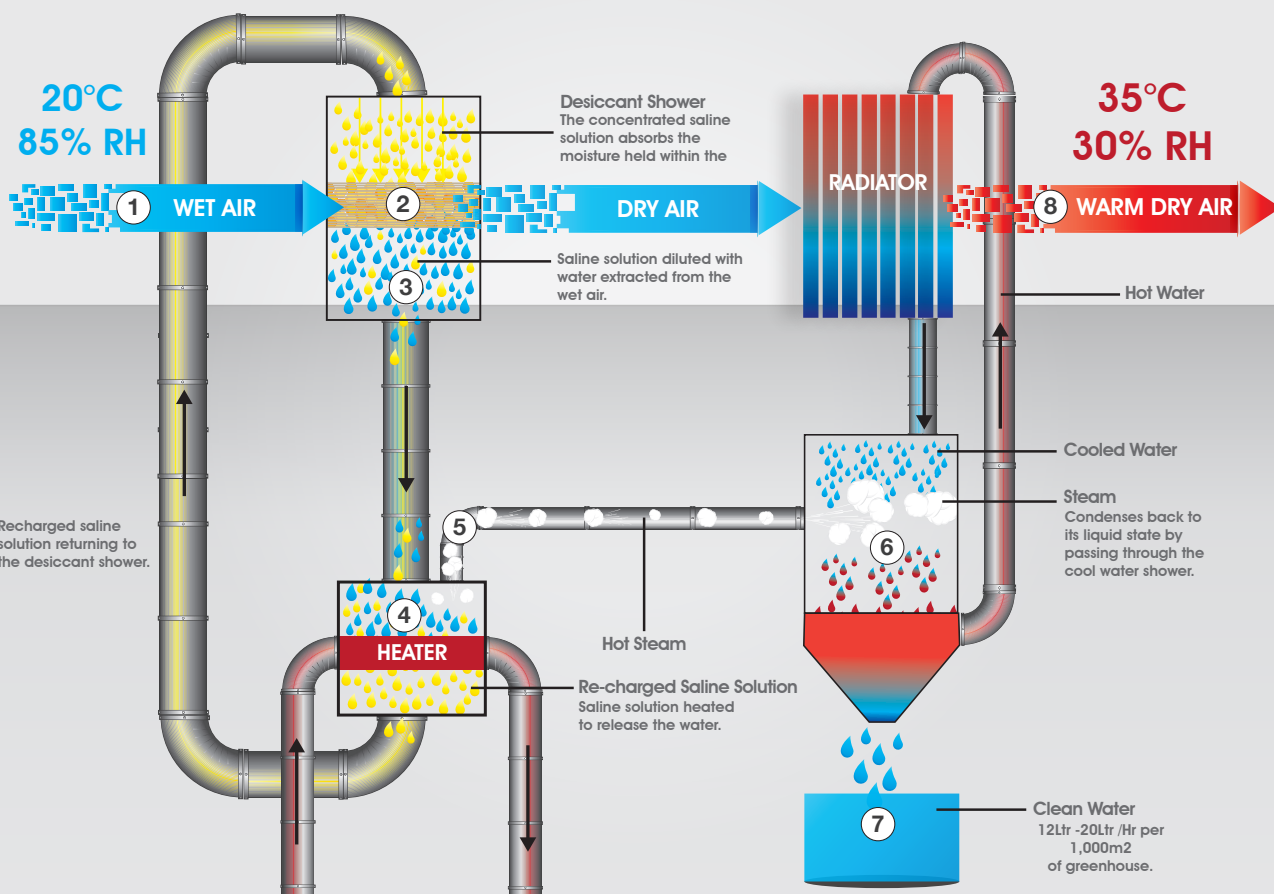
The only additional energy requirement is a small amount of electricity (approx. 2.5kWh) to run the two small water pumps and the fans. Bearing in mind you would need to run additional air circulation fans in the absence of the ECC anyway.

**Free Heat** On top of the massive energy savings already mentioned, the ECC actually takes the latent heat from the water vapour (which would normally be vented) and uses it to further warm the air inside the greenhouse.

**Further Savings** This process of re circulating the air through the saline solution has a devastating effect on fungal spore populations thus reducing the requirement for expensive fungicide applications.

**Coverage** One unit will cover 1,000-2,000m<sup>2</sup> depending on the crop. Typically, a crop of mature tomatoes, peppers etc. could need one unit per 1,000m<sup>2</sup>, whereas herbs, bedding, young plants etc. may only require one unit for 2,000m<sup>2</sup>.





## How does it work?

The ECC draws in humid air from within the glasshouse (1). The water vapour is then removed by passing the air through a matrix of desiccant filled elements inside a compact (cooling-type) tower (2).

The desiccant (an extremely concentrated saline solution) absorbs water vapour from the air (3) and then passes through a heater which is heated from your existing hot water system (4).

This process releases (evaporates) the captured water from the desiccant (5) and later condenses it back into its liquid state (6) to then be expelled from the unit (7).

The hot-water energy input (used to heat the saline solution) is not lost or 'used-up', most of it is returned to the glasshouse heating system. The small amount of heat which is absorbed by the saline solution is later released back in to the greenhouse atmosphere via the radiator as warm, dry, spore-free air (8), just as originally intended, meaning this process has NO energy costs.

During this process, the latent heat which is held within the water vapour naturally warms up the desiccant. This heat is also released by the unit, back into the greenhouse atmosphere.

The desiccant also has a disinfecting effect on the air being returned to the glasshouse, further reducing disease carrying spores such as Botrytis and powdery mildew, along with various bacteria and viruses.



Contact us for more information or a quote 01282 873120 [sales@npstructures.co.uk](mailto:sales@npstructures.co.uk)



Porous Pipe



**Diameter:** 16mm.  
**Optimum Working Pressure:** 0.5 bar/7.6psi.  
**Working Length:** 50m (max).  
**Watering Rate:** 2-6ltrs/mtrs/hr.  
**Space Between Laterals:** 30-60cm (depending on soil type).  
**For Use With:** 16mm barbed fittings (see page 93).

**Porous Pipe is completely porous along its entire length, seeping water precisely where it is needed.**

It can be installed at ground level, below mulch or underground, minimising water loss to evaporation. It provides ideal gentle and precise watering for raised beds, fruit and vegetable plots, green houses and cloches.

It's quick and simple to install. Due to the fact Porous Pipe is made from recycled tyre remnants, the pipe is tough yet flexible. Porous Pipe works on low pressure - to ½ 1½ bar - therefore avoiding the need for expensive, heavy-duty pumps. It can normally be run using the head of water in storage tanks or mains water pressure.

Ref	Size	Price
PPH 161	16mm x 25m	£25.00
PPH 162	16mm x 50m	£45.00
PPH 163	16mm x 100m	£81.00

Pressure Compensating Drip-Line (Technet™ AS)

Compensating drip-line provides maximum uniformity for both subsurface and on-surface installations. The pressure compensating emitters are ideal for sloping terrains and the continuous self-flushing feature reduces ingestion of debris into the tubing.

Applications

- Above or below ground installation.
- Ideal for horticultural and landscaped areas.
- Curved, angular or narrow planting areas.
- Wind resistant (unlike lightweight drip tapes).
- Suitable for turf, shrubs, trees, veg etc.

Features and Benefits

- Pressure compensating (each emitter discharges the same amount of water).
- Unique flow path, continuous self-cleaning design resists clogging.
- Self-flushing/cleaning, elastomer diaphragm.
- UV resistant – withstands heat and direct sun.
- 100% water uniformity along the pipe.

Specifications

**Dripper flow rate:** 1.6lph  
**Pressure compensating range:** 5m - 35m (0.5 bar - 3.5 bar).  
**Wall Thickness:** 1.0mm.  
**Recommended filtration:** 0.10mm - 0.13mm (100µm -130µm).  
**Bending Radius:** 18cm (before kinking).  
**Colour:** Brown  
**For Use With:** 16mm barbed fittings (see page 83).



					Price		
Ref	Tube Diameter	Emitter Output	Emitter Spacings	Coil Length	1-4	5-9	10+
CDL 001	16mm	1.6ltrs/hr	30cm	100m	£73.00	£68.00	£62.00
CDL 002	16mm	1.6ltrs/hr	50cm	100m	£71.00	£66.00	£61.00

Please Note: All prices exclude VAT



## 4-Way Dripper Sets



### 4-Lead Manifold Sets

Four 80cm microtubes connected with a 4-way manifold. Each microtube is fitted with an arrow stake at the outlet.

Manifolds attach to the top of our PCJ or CNL drippers to allow multi-pot watering from one dripper. The dripper flow rate is therefore split between the 4 arrow stakes.

ARROW



ARROW 'S'



		Price		
Ref	Description	1-499	500-999	1000+
MSS 4	4-Way Manifold Set Arrow	£1.35	£1.25	£1.16
MSS 41	4-Way Manifold Arrow 'S'	£1.35	£1.25	£1.16

### Pressure Compensating CNL Drippers

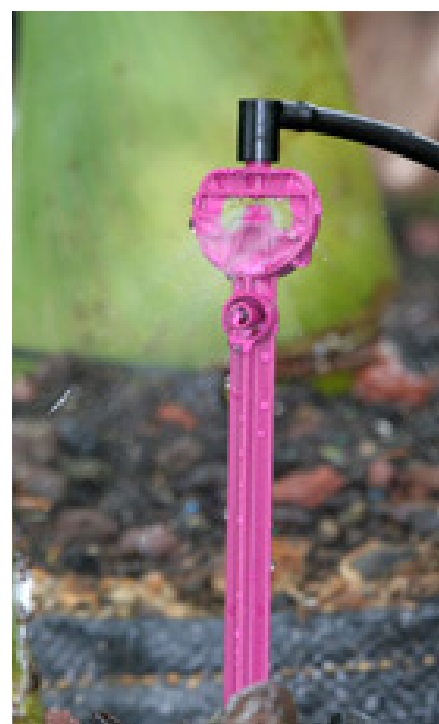
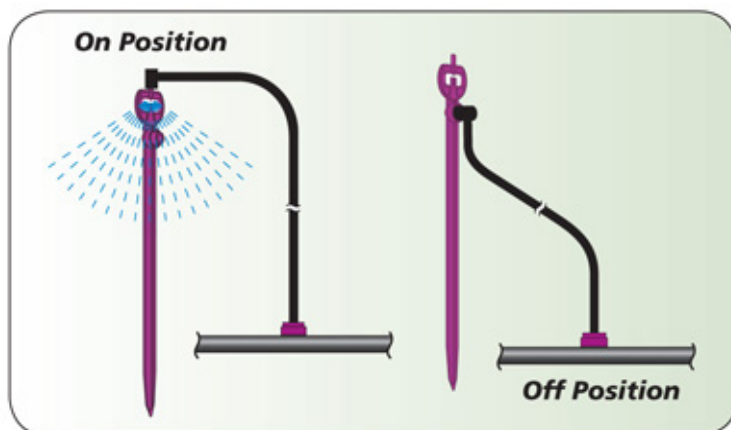
Used with 4-lead manifold sets (above).

- Pressure compensating for precise, uniform watering regardless of pressure variances.
- Non-leakage design (anti-drain) eliminates leakages between irrigation cycles. Especially important for pulse irrigation.
- Self flushing. Continuously allowing debris to pass through when detected.



Ref	Flow Rate	Colour Base/Cap	1-499	500-999	1000+
CDR 001	4ltrs/hr	Black/Brown	£0.51	£0.47	£0.44
CDR 002	6ltrs/hr	Black/Black	£0.51	£0.47	£0.44
CDR 003	8ltrs/hr	Green/Brown	£0.51	£0.47	£0.44

### Pressure Compensating Spray Stake



**Output:** 12ltr/hr

- Suitable for trees and shrubs (in bare ground or in tubs).
- Wide spray pattern reduces run-off.
- High flow rate reduces wind drift.
- Pressure compensating for precise, uniform flow rate.
- Spray stake and 80cm lead sold separately - both required.

Ref	Description	1-499	500-999	1000+
DRI 030	Purple Spray Stake	£0.32	£0.30	£0.28
DRI 031	80cm Lead with 12ltr/hr Emitter	£1.04	£0.96	£0.89



# Dripper And Drip Lead Assemblies



**Pressure compensating (PCJ) drippers** are designed to 'lock' at the end of the irrigation cycle, preventing water draining from the system, therefore no need to refill system for the next irrigation cycle. Dripper closes ('locks') when pressure falls to 1.2m head (2psi approx.) and opens again when the pressure reaches 3mtr head (4.3psi). Output is unaffected by varying input pressures or slopes. As long as the pressure to the dripper remains between 0.7-4.0 bar (10-58psi), the drippers output will be accurate. Higher pressure drippers also available.

**Un-Regulated Drippers** are not pressure compensating and as such can have a slight variation in output depending upon the pressure. They have a tendency to drain after use. Often used where liquid feeding is not required.

## Un-regulated Drinker Assemblies With Cap

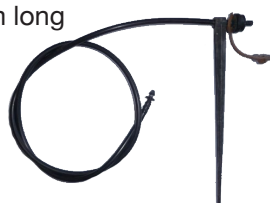
Assembled 'ready to use' unit for plugging into LDPE laterals.

Dripper has nipple outlet to accommodate dripper cap.

Pipe Clamp Stake sold separately.

**Pre-assembled sets come with:**

- Non-pressure regulating dripper,
- 5mm insert nipple,
- Microtube 80cm long
- Drinker cap.



Ref	Output	Description	Price		
			1-499	500-999	1000+
DRI 034	2ltr/hr	80cm Lead	£0.65	£0.60	£0.55
DRI 035	4ltrs/hr	80cm Lead	£0.65	£0.60	£0.55
DRI 036	8ltrs/hr	80cm Lead	£0.65	£0.60	£0.55
DRI 037	N/A	Pipe Clamp Stake	£0.14	£0.13	£0.12

## Un-regulated Woodpecker Drinker Assemblies



**Pre-assembled sets come with:**

- Non-pressure regulating dripper
- Microtube 80cm long
- Straight Prevo stake

Ref	Output	Lead Length	Stake	Price		
				1-499	500-999	1000+
DRI 010	2ltr/hr	80cm	Prevo	£0.45	£0.42	£0.39
DRI 011	4ltr/hr	80cm	Prevo	£0.45	£0.42	£0.39

## Pressure Compensating Woodpecker Drinker Assemblies (PCJ HCNL)

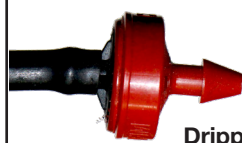
**Pre-assembled sets come with:**

- Pressure compensating dripper.
- Straight Prevo stake or angled Prevo 'S' stake.
- 50cm or 80cm long microtube.

**Operating Pressure:** 1.5-4 bar.

Other options available, call for details.

Flow rate colour coded



Dripper

Prevo Stake



Prevo 'S' Stake



Prevo 'S' Stake

Ref	Output	Lead Length	Stake	Ideal For	Price		
					1-499	500-999	1000+
DRI 014	2ltr/hr	50cm	Prevo	Baskets	£0.31	£0.28	£0.26
DRI 016	2ltrs/hr	80cm	Prevo	Baskets	£0.34	£0.31	£0.29
DRI 017	4ltrs/hr	80cm	Prevo	Larger Tubs	£0.34	£0.31	£0.29
DRI 023	0.5ltr/hr	70cm	Prevo S	Grow Bags	£0.33	£0.31	£0.29
DRI 018	1.2ltrs/hr	50cm	Prevo S	Grow Bags	£0.31	£0.28	£0.26
DRI 019	2ltrs/hr	50cm	Prevo S	Grow Bags	£0.31	£0.28	£0.26
DRI 020	2ltrs/hr	80cm	Prevo S	Grow Bags	£0.34	£0.31	£0.29

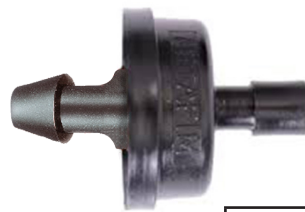
Please Note: All prices exclude VAT



## Un-regulated Woodpecker Dripper

Ideal for using with pots, containers and planters. The dripper is suitable for screwing into microtube for a secure connection. It is suitable for working with a maximum pressure up to 2 bar. It is easy to install and features a labyrinth technology for reliable water flow and a wide water passage to prevent clogging.

Nipple outlet - suitable for use with dripper caps (below).



(Drip emitter only)

Ref	Output	Price		
		1-499	500-999	1000+
DRI 040	2ltrs/hr	£0.30	£0.28	£0.26
DRI 041	4ltrs/hr	£0.30	£0.28	£0.26

## Pressure Compensating Woodpecker Dripper (PCJ LCNL)

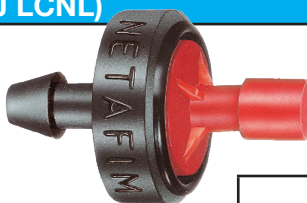
Unaffected by varying inlet pressure and field slopes. Flow rate colour coded.

Uniform, precise and consistent irrigation.

CNL prevents water drainage and eliminates need of refill, ensuring instant pressure compensated flow at every irrigation.

Can also be used with the 4-way manifold sets (see page 74).

**Operating pressure:** 0.7 - 4.0 bar.



Ref	Output	Price		
		1-499	500-999	1000+
DRI 006	2ltr/hr	£0.26	£0.24	£0.22
DRI 007	4ltr/hr	£0.26	£0.24	£0.22
DRI 008	8ltr/hr	£0.26	£0.24	£0.22

## Dripper Cap



For use with drippers with a nipple outlet.



Ref	Description	1-499	500-999	1000+
DRI 025	Dripper Cap	£0.13	£0.12	£0.11

## Adjustable Spike Mounted Dripper



Flow and coverage can be altered by rotating the cap. Finger-tip flow control with shut-off option. Spike design to anchor dripper at the plant base. Comes with insert nipple (attached) to connect microtube to lateral pipe (simply twist off).

Ref	Description	1-99	100-499	500+
ASM 001	Spike Mounted Dripper	£0.59	£0.49	£0.39

## 5mm Insert Nipple



The large barb plugs into the LDPE supply pipe. Use a 3mm hole punch to make the hole. Double-barbed end is for the microtube.

Ref	1-499	500-999	1000+
DIN 005	£0.10	£0.09	£0.08

## Microtube

Black LDPE microtube to suit barbed 5mm fittings and drippers.

**Tube Size:** OD 6mm ID 4mm  
**Reel Length:** 100m



Ref	Description	1-9	10+
MIC 100	6/4mm x 100m Microtube	£29.95	£24.95

## Deluxe 3mm Hole Punch



Cuts a 3mm hole in LDPE pipe. Suitable for all our drip products.

Ref	Description	Price
MHP 2	Deluxe 3mm Hole Punch	£7.80

## 5mm Barbed Tee



Used with Microtube (shown above). Also, plugs directly into LDPE supply pipe (use 3mm hole punch).

Ref	1-499	500-999	1000+
DRI 027	£0.15	£0.14	£0.13



## Capillary Matting

**Applications:**

Indoor and outdoor display areas  
at retail point  
Polytunnel floors/benches  
Nursery and growing areas



Standard weight capillary matting for both indoor and outdoor use.  
Suitable for use on benching and on the floor.

**Capacity:** Holds 3ltrs of water per m<sup>2</sup> (approx.)

**Weight:** 247g per m<sup>2</sup>.

**Thickness:** 4mm

- Excellent water retention.
- No shrinkage.
- Minimises disease and weed issues.
- An environmentally friendly 100% recycled product.
- Water and feed delivered to plants at an optimal rate.
- Long lasting & durable.
- Even water distribution.



Ref	Width	Length	1-4	5-9	10+
LAN 060	60cm (2ft)	50m	£112.88	£107.23	£101.59
LAN 090	91cm (3ft)	50m	£150.00	£142.50	£135.00
LAN 100	100cm (3ft 3in)	50m	£167.00	£158.65	£150.30
LAN 120	122cm (4ft)	50m	£199.00	£189.05	£179.10
LAN 140	142cm (4ft 8in)	50m	£227.00	£215.65	£204.30
LAN 183	183cm (6ft)	50m	£280.00	£266.00	£252.00

## Misters and Foggers

**Rondo Mist Sprayer Assembly**

**Droplet Size:** 150µm

**Flow Rate:** 47 ltr/hr at 3 bar

**Operating Pressure:** 2.5 - 3 bar

**Coverage:** 2m (but space 1m apart).

Comes with;

- 30cm drop-tube and weight
- Anti-drain Valve
- Mist Sprayer
- Barbed adapter for LDPE pipe (other options available).

**Low Flow Fogger Assembly**

**Droplet Size:** 70 µm

**Flow Rate:** 18 ltr/hr

Comes with;

- 30cm drop-tube and weight
- Anti-drain Valve
- 4-Way Low Flow Fogger
- Barbed adapter for LDPE pipe (other options available).



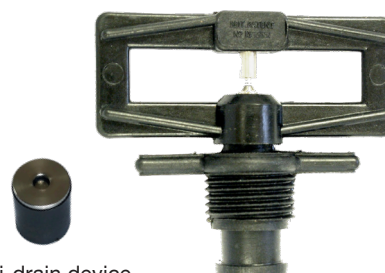
Rondo Mist Sprayer



Low Flow Fogger

Ref	Description	Price
RMS 001	Rondo Mist Sprayer Assembly	£1.95
LFF 322	4-Way Low Flow Fogger Assembly	£5.95

## Mist Nozzle



Anti-drain device

Our mist nozzles are constructed from a robust, glass filled, nylon frame and benefit from a stainless steel jet and anvil.

These nozzles are widely used throughout the professional horticultural industry so you can be assured of reliable results every time.

An optional anti-drain device is available, this is inserted inside the threaded base.

**Nozzle/Jet Size:** 0.8mm

Pressure	Diameter	Flow
30psi	1.30m	0.68 l/m
40psi	1.45m	0.73 l/m
50psi	1.55m	0.77 l/m
60psi	1.65m	0.81 l/m
70psi	1.74m	0.85 l/m
80psi	1.80m	0.90 l/m

Minimum recommended height of misters above the plants is 90cm (3ft).

Ref	Connection	Price
MNE 001	½" Male BSP Thread	£13.33
MNE 004	Anti-Drain Device	£7.50

Please Note: All prices exclude VAT



## Mist Propagation Kit

Our automatic mist propagation systems have been designed for professional growers. Supplied with all the components required to set-up a complete system, including solenoid valve and controller. All pipework is 20mm PVC and is cut to length for quick, easy assembly. Water filter included to prevent any debris blocking the mist nozzles. Supplied with high quality 'Amber Light' mist nozzles for optimum performance. Simply order the kit which matches the length of your propagation bench. Can be easily extended at a later date if required. We also supply bespoke systems – please phone to discuss.

### Kit includes:

All pipe and fittings  
PVC solvent weld (glue)  
Mist nozzles  
Mist & wean controller  
Wet leaf sensor c/w 2m cable  
Solenoid valve  
Low voltage cable  
Water filter  
'Geka' type hose connector



Bench NOT Included



Ref	Description	Price
MPK 002	2m Long Bench Kit	£300.82
MPK 003	3m Long Bench Kit	£322.61
MPK 004	4m Long Bench Kit	£345.38
MPK 005	5m Long Bench Kit	£366.19
MPK 006	6m Long Bench Kit	£387.98
MPK 007	7m Long Bench Kit	£409.77
MPK 008	8m Long Bench Kit	£431.56
MPK 009	9m Long Bench Kit	£453.35
MPK 010	10m Long Bench Kit	£476.14

## Mist Propagation Controller

This simple propagation controller (as used in the kit above) will give you control over your rooting environment. Simple to use and simple to set up.

In the early stages of growth the control can be set to give predominantly mist conditions. As the cutting matures the interval between misting can be increased, thereby effectively weaning the plant off the mist and encouraging rapid root growth.

- Safe 24v AC Output
- Interval timing between 0 – 30 minutes
- Mist burst lengths 0 – 10 seconds
- Mist when leaf dry
- Mist until leaf wet
- Adjustable leaf sensitivity control with LED indication



Ref	Description	Price
MPC 001	Mist Propagation Controller	£160.00
SEN 001	Wet Leaf Sensor c/w 2m cable	£35.00



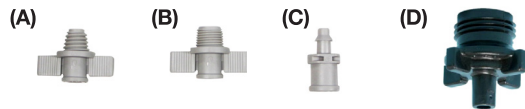
# Overhead Spray-Line Assemblies

Build your own overhead sprinkler assembly. All connections are 6mm push-fit, and so any component can be removed allowing the rest to inter-connect.

A choice of spray-line connectors are available although the standard one we use is 3/8 WW. The use of drop tubes ensures each sprinkler hangs true giving optimum performance, whilst also keeping the spray-line dry to preventing dripping. Anti-drain valves give instant, simultaneous start-up and shut-off. They prevent the water within the spray-line dribbling out after irrigation has ended, leaving it ready primed for the next irrigation cycle.

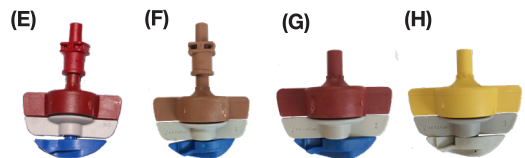
Pre-drilled 32mm PVC pipe can be found on page 85.

## Sprayline Connectors

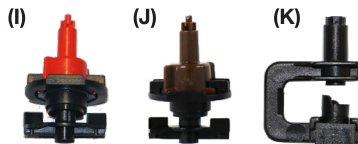


- (A) 3/8WW Sprayline Connector
- (B) M11 Sprayline Connector
- (C) LDPE Pipe Connector
- (D) 1/2" MBSP Connector

## Sprayers



- (E) 70/120 ltr/hr Sprayer (c/w SD) (360°)
- (F) 90/160 ltr/hr Sprayer (c/w SD) (360°)
- (G) 120 ltr/hr Sprayer (360°)
- (H) 200 ltr/hr Sprayer (360°)



- (I) Red 120 ltr/hr Sprayer (360°)
- (J) Brown 160 ltr/hr Sprayer (360°)
- (K) Black 70 ltr/hr Sprayer (180°)



Sprayline Connector

30cm Drop Tube & Weight  
(other lengths also available).

Anti-Drain Valve

Isolation Valve

Sprayer

6mm Male Push-Fit Plug

	Ref		Description	1-49	50-99	100+
Sprayline Connectors	NSA 038	(A)	3/8 WW Sprayline Connector	£0.12	£0.11	£0.10
	NSA 011	(B)	M11 Sprayline Connector	£0.12	£0.11	£0.10
	NSA 047	(C)	LDPE Pipe Connector	£0.12	£0.11	£0.10
	MFP 006	(D)	1/2" MBSP Connector	£0.30	£0.30	£0.30
Drop Tube	NSD 030		30cm Drop Tube and Weight	£0.98	£0.90	£0.84
Valve	NSA 001		Anti-Drain Valve (2 Bar)	£0.85	£0.80	£0.73
Shut Off Tap	ISV 001		Isolation Valve	£0.70	£0.68	£0.66
Sprayers	NSS 120	(E)	70/120 ltr/hr Sprayer (c/w SD)	£1.24	£1.15	£1.06
	NSS 160	(F)	90/160 ltr/hr Sprayer (c/w SD)	£1.24	£1.15	£1.06
	NSS 220	(G)	120 ltr/hr Sprayer	£1.24	£1.15	£1.06
	NSS 200	(H)	200 ltr/hr Sprayer	£1.24	£1.15	£1.06
	RSN 120	(I)	Red 120ltr/hr Sprayer (360°)	£0.90	£0.83	£0.75
	BSN 160	(J)	Brown 160ltr/hr Sprayer (360°)	£0.90	£0.83	£0.75
	HSN 070	(K)	Black 70ltr/hr Sprayer (180°)	£0.90	£0.83	£0.75
Plug	PLU 006		6mm Male Push-Fit Plug	£0.19	£0.19	£0.19

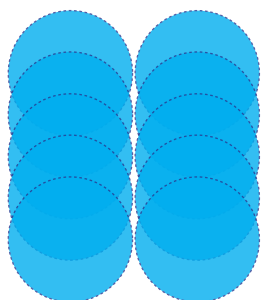


# Overhead Irrigation Systems



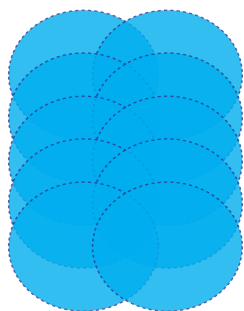
All of our overhead irrigation systems give the highest levels of uniformity with the least amount of wasted water. All kits include 30cm weighted drop tubes, anti-drip valves, and a specific spray nozzle for each particular width of greenhouse. After all, a spray nozzle which is suitable for an 18ft wide polytunnel wouldn't suit a 30ft wide tunnel, and vice versa. Supplied with two 32mm PVC spray-lines, 50mm header pipe (manifold), PVC ball valve on each line, support wires, pipe clips, Geka hose coupling, and all the necessary fixtures and fittings (including the glue).

We offer two types of overhead irrigation kits – 'single strip watering' for single span polytunnels and 'overlapping' for full house irrigation in multi-span polytunnels/greenhouses.



## Single Strip (Individual Bay Irrigation)

Ideal for single span polytunnels. Each spray-line waters half of the polytunnel, from the inside edge to the central path. A special device (SD) on each nozzle ensures that most of the water falls uniformly within the strip. This allows you to have a different watering regime on each side of your tunnel without any overlap. Also suitable in multi-span polytunnels/greenhouses where the same effect is desired. Even though several factors can influence the overall uniformity we would still expect around 80% with these systems (much higher than any other comparable system). Nozzles spaced 1m apart.



## Overlapping (Full House Irrigation)

Ideally suited to larger multi-span polytunnels/greenhouses where uniform watering across the whole area is required. Each spray-line overlaps the spray-lines on each side by 50%, effectively giving 100% overlap as each spray-line is overlapped from both sides. Overlapping gives the highest levels of uniformity, as is usually required when watering a large crop with similar water requirements. Even though several factors can influence the overall uniformity we would still expect approx. 90-95% between the first and last spray-line in the greenhouse. For multi-span polytunnels/greenhouses you need to order one kit per bay. Nozzles spaced 1.5m apart.

LENGTH	SINGLE STRIP (INDIVIDUAL BAY IRRIGATION)					OVERLAPPING (FULL HOUSE IRRIGATION)	
	Single Span Polytunnel WIDTH					Multi-Span / Glasshouse WIDTH	
	18ft (5.5m)	21ft (6.4m)	24ft (7.3m)	27ft (8.2m)	30ft (9.1m)	21ft 6in (6.5m)	26ft 6in (8m)
30ft	£196.14	£196.14	£196.14	£196.14	£196.14	£180.10 / Bay	£180.10 / Bay
40ft	£225.20	£225.20	£225.20	£225.20	£225.20	£201.96 / Bay	£201.96 / Bay
50ft	£261.46	£261.46	£261.46	£261.46	£261.46	£223.82 / Bay	£223.82 / Bay
60ft	£290.52	£290.52	£290.52	£290.52	£290.52	£252.06 / Bay	£252.06 / Bay
70ft	£319.58	£319.58	£319.58	£319.58	£319.58	£273.92 / Bay	£273.92 / Bay
80ft	£348.64	£348.64	£348.64	£348.64	£348.64	£295.78 / Bay	£295.78 / Bay
90ft	£377.70	£377.70	£377.70	£377.70	£377.70	£324.02 / Bay	£324.02 / Bay
100ft	£413.96	£413.96	£413.96	£413.96	£413.96	£345.88 / Bay	£345.88 / Bay
110ft	£446.41	£446.41	£446.41	£446.41	£446.41	£367.94 / Bay	£367.94 / Bay
120ft	£475.47	£475.47	£475.47	£475.47	£475.47	£396.18 / Bay	£396.18 / Bay
130ft	£504.53	£504.53	£504.53	£504.53	£504.53	£418.04 / Bay	£418.04 / Bay
140ft	£540.79	£540.79	£540.79	£540.79	£540.79	£439.90 / Bay	£439.90 / Bay
150ft	£569.85	£569.85	£569.85	£569.85	£569.85	£468.14 / Bay	£468.14 / Bay



## Rotaframe Sprinkler



**Flow:** 16ltr/min (at 2 Bar)  
**Diam. Coverage:** 16m

Ref	Size	Price
SPR 001	1/2" F BSP	£8.60
SPR 002	3/4" F BSP	£8.95

## Part/Full Circle Metal Sprinkler



**Flow:** 14ltr/min (at 2 Bar)  
**Diam. Coverage:** 25m  
**Nozzle Size:** 4mm

Ref	Size	Price
SPR 005	1/2" M BSP	£13.30

## Part/Full Circle Plastic Sprinkler



**Flow:** 14ltr/min (at 2 Bar)  
**Diam. Coverage:** 24m  
**Nozzle Size:** 4mm

Ref	Size	Price
SPR 003	1/2" MBSP	£6.95

## Large Part/Full Circle Metal Sprinkler



**Flow:** 20ltr/min (at 2 Bar)  
**Diam. Coverage:** 28m  
**Nozzle Size:** 4mm & 2.4mm

Ref	Size	Price
SPR 004	3/4" F BSP	£28.40

## Push In Stand Pipe



3/4" Male BSP  
sprinkler  
connection

1m high  
riser

0.5m riser  
available on  
request)

25cm Spike

Price				
Ref	1-9	10-24	25-49	50+
STA 004	£25.66	£21.55	£19.80	£18.06

## Cross Base Stand Pipe

3/4" Male BSP  
sprinkler  
connection

1m high  
riser

0.5m riser  
available on  
request)

Price				
Ref	1-9	10-24	25-49	50+
STA 005	£28.00	£25.90	£23.80	£21.70

## Cross Base Stand Pipe

3/4" Male BSP sprinkler  
connection

30cm high  
riser

Price				
Ref	1-9	10-24	25-49	50+
STA 003	£26.00	£24.00	£22.00	£20.00

## Jubilee Hose Clips



Ref	Clip Size / Fits Hose	Price
WDC 002	13mm - 20mm / 1/2"	£0.66
WDC 003	17mm - 25mm / 3/4"	£0.73
WDC 004	25mm - 35mm / 1"	£0.81

## Polyprop Reducing Socket

Adaptor for 1/2"  
male threaded  
sprinklers.



Ref	Size	Price
PRS 01	3/4" x 1/2" Female BSP	£0.69

## Blanking Cap



Ref	Size	Price
QCC 001	Brass Blanking Cap	£2.70

## PTFE Tape



Ref	Size	Price
PTE 121	12mm x 12mtr	£0.90



# Overhead Hose Tracking Kits



**BEST PRICE  
GUARANTEED**  
DIRECT FROM THE  
MANUFACTURER



**A simple and effective way to use and store hose pipes in polytunnels and glasshouses.**

- Simple to install.
- Low cost.
- Takes most of the effort out of hand watering.
- Free running operation - Light and easy to use.
- High safety factor (no trip hazards).
- Extends the life-span of your hoses.
- Zero crop damage from trailing hose pipes.



The aluminium hose tracking rail is easily fixed to any polytunnel or glasshouse using the universal brackets provided. The universal brackets allow the tracking to be fastened to any framework. In polytunnels it can be fixed to either the central ridge pole or to the bracing bars (crop bars). In a glasshouse it can be attached to the trellis beams. Each hose cradle has two carriages to give smooth, snag free operation. Once assembled this system allows free flowing movement of your hose along the entire length of your greenhouse.

Supplied as a complete kit, including  $\frac{3}{4}$ " (19mm) commercial yellow hose, universal brass hose couplings, and a 60cm aluminium 'soft rain' lance.

Can also be supplied as a basic kit without hose and lance.

Alternative types of hose and hose sizes can be supplied, along with a choice of lances/trigger guns - phone for details.



Length	Basic Kit Price	Complete Kit Price
12m	£195.13	£289.45
15m	£242.19	£336.51
18m	£298.07	£392.39
21m	£345.13	£439.45
24m	£388.13	£521.45
27m	£435.19	£568.51
30m	£478.19	£611.51
33m	£538.13	£671.45
36m	£581.13	£714.45
39m	£628.19	£761.51
42m	£671.19	£804.51
45m	£718.25	£851.57
48m	£774.13	£907.45
51m	£821.19	£1,012.65
54m	£864.19	£1,055.65
57m	£911.25	£1,102.71
60m	£954.25	£1,145.71



## LDPE Pipe



4 bar rated.  
100% virgin polymer.  
For use with the fittings  
on this page.

Ref	Size	Price		
		1	2-9	10+
LDP 161	16mm x 50mtr	£23.40	£21.27	£19.34
LDP 160	16mm x 100mtr	£39.36	£32.14	£29.22
LDP 200	20mm x 100mtr	£48.30	£43.91	£39.92
LDP 250	25mm x 100mtr	£67.60	£61.45	£55.87

## 16 / 20mm Pipe Stake



To secure 16mm and 20mm  
pipe to the ground.

Ref	Size	Price
PAS 162	Pipe Stake	£0.42

## Straight Connector



Ref	Size	Price
BSC 16	16mm	£0.17
BSC 20	20mm	£0.21
BSC 25	25mm	£0.28

## Tube Clips



Can be  
unclipped  
and reused.

Ref	Size	Price/100
NTC 16	16mm	£15.60
NTC 20	20mm	£15.60

## Barbed Reducing Connector



Ref	Size	Price
BRE 16	20mm x 16mm	£0.21
BRE 202	25mm x 20mm	£0.33

## Plug



Ref	Size	Price
BPG 16	16mm	£0.17
BPG 20	20mm	£0.19
BPG 25	25mm	£0.30

## Tee Connector



Ref	Size	Price
BTC 16	16mm	£0.18
BTC 20	20mm	£0.24
BTC 25	25mm	£0.54

## Elbow Connector



Ref	Size	Price
BEC 16	16mm	£0.25
BEC 20	20mm	£0.28
BEC 25	25mm	£0.63

## Barbed Female Threaded Adaptor



Ref	Size	Price
BFA 163	16mm x 3/4"	£0.56
BFA 203	20mm x 3/4"	£0.65

## Barbed Male Threaded Tee



Ref	Size	Price
BMT 163	16mm x 3/4" x 16mm	£0.27
BMT 203	20mm x 3/4" x 20mm	£0.45
BMT 253	25mm x 3/4" x 25mm	£0.70
BMT 254	25mm x 1" x 25mm	£1.00

## Reducing Tee Connector



Ref	Size	Price
BRT 201	20mm x 16mm x 20mm	£0.45
BRT 251	25mm x 16mm x 25mm	£0.68

## Barbed Male Threaded Adaptor



Ref	Size	Price
BMA 162	16mm x 1/2"	£0.23
BMA 163	16mm x 3/4"	£0.23
BMA 203	20mm x 3/4"	£0.25
BMA 253	25mm x 3/4"	£0.32
BMA 254	25mm x 1"	£0.34

## Barbed Male Threaded Valve



Ref	Size	Price
BMV 16	16mm x 3/4"	£1.13
BMV 20	20mm x 3/4"	£1.13

## Barbed Male Threaded Elbow



Ref	Size	Price
BME 163	16mm x 3/4"	£0.32
BME 203	20mm x 3/4"	£0.35
BME 253	25mm x 3/4"	£0.75
BME 254	25mm x 1"	£0.75

## Barbed Valve



Ref	Size	Price
BVE 16	16mm	£1.09
BVE 20	20mm	£1.12
BVE 25	25mm	£1.15



## Male Nipple



Ref	Size	Price
GMN 001	1/4"	£1.43
GMN 002	1/2"	£1.13
GMN 003	3/4"	£1.27
GMN 004	1"	£1.80
GMN 005	1 1/4"	£3.00
GMN 006	1 1/2"	£3.45
GMN 007	2"	£6.29

## Male / Female Slow Bend



Ref	Size	Price
FSB 001	1/2"	£2.11
FSB 002	3/4"	£3.06
FSB 003	1"	£4.49
FSB 004	1 1/2"	£9.44

## Female Elbow



Ref	Size	Price
FFE 001	1/2"	£1.19
FFE 002	3/4"	£1.63
FFE 003	1"	£2.54
FFE 004	1 1/4"	£4.19
FFE 005	1 1/2"	£7.04
FFE 006	2"	£8.22

## PTFE Tape



Ref	Size	Price
PTE 121	12mm x 12mtr	£0.90

## Female Equal Socket



Ref	Size	Price
FES 001	1/2"	£1.13
FES 002	3/4"	£1.34
FES 003	1"	£1.80
FES 004	1 1/4"	£3.07
FES 005	1 1/2"	£4.19
FES 006	2"	£6.29

## Female Reducing Socket



Ref	Size	Price
FRS 001	3/4" x 1/2"	£1.63
FRS 003	1" x 1/2"	£2.17
FRS 002	1" x 3/4"	£2.03
FRS 004	1 1/4" x 1"	£3.45
FRS 005	2" x 1 1/2"	£6.29

## Male Reducing Nipple



Ref	Size	Price
MRN 001	1/2" x 1/4"	£2.17
MRN 002	3/4" x 1/2"	£1.87
MRN 004	1" x 1/2"	£3.22
MRN 003	1" x 3/4"	£1.87
MRN 005	1 1/4" x 1"	£3.07
MRN 006	1 1/2" x 1"	£6.80
MRN 007	1 1/2" x 1 1/4"	£3.89
MRN 008	2" x 1 1/4"	£8.15
MRN 009	2" x 1 1/2"	£7.40

## Hollow Plug



Ref	Size	Price
GHP 001	1/2"	£0.87
GHP 002	3/4"	£1.12
GHP 003	1"	£1.35
GHP 004	1 1/4"	£1.91
GHP 005	1 1/2"	£3.20

## Female Union



Ref	Size	Price
FFU 001	1/2"	£4.80
FFU 002	3/4"	£5.24
FFU 003	1"	£6.13
FFU 004	1 1/4"	£9.28
FFU 005	1 1/2"	£10.49

## Female Tee



Ref	Size	Price
FET 001	1/2"	£1.63
FET 002	3/4"	£2.40
FET 003	1"	£3.45
FET 004	1 1/4"	£5.69
FET 005	1 1/2"	£7.79

## Female Reducing Bush



Ref	Size	Price
MFB 001	1/2" x 1/4"	£0.90
MFB 003	3/4" x 1/2"	£1.04
MFB 002	1" x 3/4"	£1.34
MFB 004	1" x 1/2"	£1.27
MFB 007	1 1/4" x 1/2"	£2.17
MFB 005	1 1/4" x 1"	£1.57
MFB 006	1 1/2" x 1"	£2.17



All PVC pipe is 10 Bar (147psi) rated and most of the fittings are 16 bar (235psi). PVC is very versatile and easy to use. Simply cut the pipe to length, clean the ends with methylene chloride, removing any debris, apply glue to both the pipe and fitting - then push together.

Pumps, valves, filters etc can be easily be connected by using the various BSP threaded connectors.

Metric PVC pipe is widely used in horticulture and agriculture where non-portable (non-drinking) water needs transporting.

PVC is a low cost and effective way to plumb your irrigation supply.

The 32mm pre-drilled pipe is used for overhead spray lines. **We use 3/8WW as standard.**

### Plain Pipe



20-90mm = 10 Bar rated  
110mm = 7.5 Bar rated.

Socketed at one end.

Ref	Diameter	Length	Price		
			1-9	10-24	25+
PPP 20	20mm	5m	£4.17	£3.75	£3.38
PPP 32	32mm	5m	£8.06	£7.26	£6.53
PPP 40	40mm	5m	£9.21	£8.29	£7.46
PPP 50	50mm	5m	£12.33	£11.10	£9.99
PPP 63	63mm	5m	£15.11	£13.59	£12.24
PPP 75	75mm	5m	£21.05	£18.95	£17.05
PPP 90	90mm	5m	£28.57	£25.71	£23.14
RDP 110	110mm	5m	£32.32	£29.09	£26.18

### Drilled Pipe (For Spraylines)



Socketed at one end.

Ref	Size	Price		
		1-9	10-24	25+
PPD 324	32mm x 5mtr 3/8"WW Drilled Every 1m	£7.20	£6.48	£5.83
PPD 323	32mm x 4.5mtr 3/8"WW Drilled Every 1.5m	£6.38	£5.74	£5.16
PPD 322	32mm x 5mtr M11 Drilled Every 1m	£7.70	£6.48	£5.83
PPD 321	32mm x 4.5mtr M11 Drilled Every 1.5m	£6.38	£5.74	£5.16

### Male Threaded Elbow



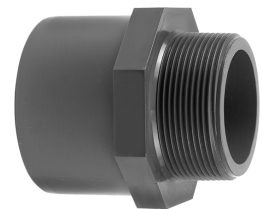
Ref	Size	Price
PTE 324	32mm x 1"	£1.43
PTE 325	32mm x 1 1/4"	£1.10
PTE 505	50mm x 1 1/4"	£2.23

### Reducing Bush



Ref	Size	Price
PRB 322	32mm x 20mm	£0.68
PRB 403	40mm x 32mm	£0.72
PRB 503	50mm x 32mm	£1.32
PRB 504	50mm x 40mm	£0.97
PRB 633	63mm x 32mm	£1.79
PRB 634	63mm x 40mm	£1.79
PRB 635	63mm x 50mm	£1.79
PRB 753	75mm x 32mm	£3.00
PRB 755	75mm x 50mm	£3.00
PRB 756	75mm x 63mm	£3.00
PRB 905	90mm x 50mm	£5.07
PRB 906	90mm x 63mm	£5.07
PRB 907	90mm x 75mm	£5.07

### Male Threaded Adaptor



Ref	Size	Price
PMT 202	20mm x 1/2"	£0.68
PMT 203	20mm x 3/4"	£0.68
PMT 322	32mm x 1/2"	£0.75
PMT 323	32mm x 3/4"	£0.75
PMT 324	32mm x 1"	£0.75
PMT 325	32mm x 1 1/4"	£0.81
PMT 405	40mm x 1 1/4"	£1.14
PMT 504	50mm x 1"	£2.03
PMT 505	50mm x 1 1/4"	£2.03
PMT 506	50mm x 1 1/2"	£2.03
PMT 508	50mm x 2"	£2.03
PMT 636	63mm x 1 1/2"	£3.30
PMT 638	63mm x 2"	£3.30
PMT 758	75mm x 2"	£5.74
PMT 751	75mm x 3"	£7.79
PMT 901	90mm x 3"	£10.85
PMT 902	90mm x 4"	£13.56

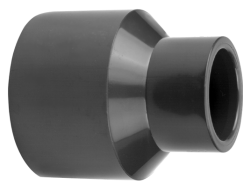
### MET/IMP Sockets



Ref	Size	Price
PMI 20	20mm x 1/2"	£0.65
PMI 32	32mm x 1"	£0.77
PMI 40	40mm x 1 1/4"	£1.15
PMI 50	50mm x 1 1/2"	£1.51
PMI 63	63mm x 2"	£2.24



## Reducing Sockets



Ref	Size	Price
PRS 322	32mm x 20mm	£1.25
PRS 403	40mm x 32mm	£1.31
PRS 503	50mm x 32mm	£2.43
PRS 635	63mm x 50mm	£4.04
PRS 755	75mm x 50mm	£4.76
PRS 756	75mm x 63mm	£4.76
PRS 907	90mm x 75mm	£7.17

## 90° Slow Bend



Ref	Size	Price
PSB 32	32mm	£2.65
PSB 40	40mm	£3.47
PSB 50	50mm	£5.19
PSB 63	63mm	£7.84
PSB 75	75mm	£11.00
PSB 90	90mm	£20.21

## Threaded Bush



Ref	Size	Price
PTB 322	32mm x 1/2"	£1.59
PTB 323	32mm x 3/4"	£1.59
PTB 404	40mm x 1"	£2.07
PTB 504	50mm x 1"	£2.68
PTB 636	63mm x 1 1/2"	£4.31

## Female Threaded Adaptor



Ref	Size	Price
PFT 202	20mm x 1/2"	£1.29
PFT 322	32mm x 1/2"	£2.57
PFT 323	32mm x 3/4"	£2.57
PFT 324	32mm x 1"	£2.57
PFT 505	50mm x 1 1/4"	£3.96
PFT 506	50mm x 1 1/2"	£3.61
PFT 638	63mm x 2"	£5.44
PFT 751	75mm x 2 1/2"	£15.74
PFT 901	90mm x 3"	£17.93

## 45° Plain Elbow



Ref	Size	Price
PFE 20	20mm	£1.43
PFE 32	32mm	£1.58
PFE 40	40mm	£2.14
PFE 50	50mm	£2.52
PFE 63	63mm	£4.37
PFE 75	75mm	£7.03
PFE 90	90mm	£10.71

## Threaded Socket



Ref	Size	Price
PTS 050	1/2"	£1.57
PTS 075	3/4"	£2.01
PTS 100	1"	£2.85
PTS 125	1 1/4"	£3.34
PTS 150	1 1/2"	£4.46
PTS 200	2"	£6.37

## 90° Plain Elbow



Ref	Size	Price
PNE 20	20mm	£0.78
PNE 32	32mm	£0.98
PNE 40	40mm	£1.40
PNE 50	50mm	£2.61
PNE 63	63mm	£4.42
PNE 75	75mm	£7.10
PNE 90	90mm	£10.76

## Plain Socket



Ref	Size	Price
PPS 20	20mm	£0.52
PPS 32	32mm	£0.60
PPS 40	40mm	£0.92
PPS 50	50mm	£1.22
PPS 63	63mm	£1.81
PPS 75	75mm	£3.52
PPS 90	90mm	£5.65

## Reducing Elbow



Ref	Size	Price
PRE 503	50mm x 32mm	£2.34

## 'S' Bend



Ref	Size	Price
PSB 321	32mm	£3.66
PSB 501	50mm	£5.83



## Equal Nipple



Ref	Size	Price
PEN 050	1/2"	£0.97
PEN 075	3/4"	£1.15
PEN 100	1 1/2"	£1.40
PEN125	1 1/4"	£1.73
PEN 150	1"	£2.57
PEN 200	2"	£3.45
PEN 300	3"	£12.44

## Reducing Tee



Ref	Size	Price
PRT 322	32mm x 20mm x 32mm	£1.40
PRT 403	40mm x 32mm x 40mm	£1.47
PRT 503	50mm x 32mm x 50mm	£2.23
PRT 633	63mm x 32mm x 63mm	£5.00
PRT 635	63mm x 50mm x 63mm	£5.00
PRT 753	75mm x 32mm x 75mm	£7.88
PRT 755	75mm x 50mm x 75mm	£7.88
PRT 905	90mm x 50mm 90mm	£13.90
PRT 907	90mm x 75mm x 90mm	£13.90

## 45° Branch Tee



Ref	Size	Price
PBT 32	32mm	£4.94
PBT 50	50mm	£7.55
PBT 63	63mm	£11.83
PBT 75	75mm	£18.94

## Reducing Nipple



Ref	Size	Price
PRN 075	3/4" x 1/2"	£1.27
PRN 100	1" x 3/4"	£1.47
PRN 125	1 1/4" x 1"	£1.86
PRN 150	1 1/2" x 1 1/4"	£2.71
PRN 200	2" x 1 1/2"	£3.62

## Male Branch Tee



Ref	Size	Price
PMB 324	32mm x 1" x 32mm	£1.73
PMB 325	32mm x 1 1/4" x 32mm	£1.15
PMB 405	40mm x 1 1/4" x 40mm	£2.01
PMB 504	50mm x 1" x 50mm	£2.71
PMB 505	50mm x 1 1/4" x 50mm	£2.53
PMB 506	50mm x 1 1/2" x 50mm	£2.80
PMB 634	63mm x 1" x 63mm	£5.54
PMB 638	63mm x 2" x 63mm	£5.54

## Cross



Ref	Size	Price
PCS 20	20mm	£2.07
PCS 32	32mm	£4.74
PCS 50	50mm	£7.30
PCS 63	63mm	£9.47
PCS 75	75mm	£18.93

## Reducing Cross



Ref	Size	Price
PRC 503	50mm x 32mm	£7.33

## Equal Tee



Ref	Size	Price
PET 20	20mm	£0.98
PET 32	32mm	£1.10
PET 40	40mm	£1.60
PET 50	50mm	£2.27
PET 63	63mm	£4.82
PET 75	75mm	£7.88
PET 90	90mm	£13.21

## Female Branch Tee



Ref	Size	Price
PFB 202	20mm x 1/2" x 20mm	£1.89
PFB 324	32mm x 1" x 32mm	£2.75

## Stop End Set

Comes complete with rubber seal



Ref	Size	Price
PES 201	20mm x 1/2"	£1.28
PES 32	32mm x 1"	£1.22
PES 40	40mm x 1 1/4"	£2.00
PES 50	50mm x 1 1/2"	£2.80

## Plain Cap



Ref	Size	Price
PPC 20	20mm	£0.79
PPC 32	32mm	£1.04
PPC 40	40mm	£1.28
PPC 50	50mm	£1.59
PPC 63	63mm	£2.68
PPC 75	75mm	£5.60

Please Note: All prices exclude VAT



## Threaded Cap and Seal



Ref	Size (BSP)	Price
PTC 050	1/2"	£0.54
PTC 075	3/4"	£0.60
PTC 100	1"	£0.60
PTC 125	1 1/4"	£0.92
PTC 150	1 1/2"	£1.66
PTC 200	2"	£3.02
PTC 250	2 1/2"	£7.16
PTC 300	3"	£11.14

## Male Threaded Union



Ref	Size	Price
PMU 20	20mm x 1/2"	£3.46
PMU 32	32mm x 1"	£5.45
PMU 50	50mm x 1 1/2"	£6.63
PMU 63	63mm x 2"	£10.84

## Female Threaded Union



Ref	Size	Price
PFU 32	32mm x 1"	£5.45
PFU 40	40mm x 1 1/4"	£6.44
PFU 50	50mm x 1 1/2"	£6.58
PFU 63	63mm x 2"	£10.94

## Extended Socketed Union



Ref	Size	Price
PSU 32	32mm	£2.03

## 32mm Pipe Filter



Attaches inside the extended socket union (above).

Ref	Size	Price
PPF 32	32mm	£0.70

## Union



Ref	Size	Price
PUN 20	20mm x 20mm	£3.00
PUN 32	32mm x 32mm	£4.75
PUN 40	40mm x 40mm	£5.52
PUN 50	50mm x 50mm	£5.76
PUN 63	63mm x 63mm	£9.35
PUN 75	75mm x 75mm	£25.78
PUN 90	90mm x 90mm	£36.58

## Single Union Ball Valve



Ref	Size	Price
PBV 20	20mm	£7.40
PBV 32	32mm	£10.10
PBV 40	40mm	£13.60
PBV 50	50mm	£17.10
PBV 63	63mm	£27.50

## Tank Connector



Ref	Size	Price
PTC 001	3/4" x 20mm/25mm	£10.09
PTC 002	1" x 25mm/32mm	£10.84
PTC 003	1 1/4" x 32mm/40mm	£12.13
PTC 004	1 3/4" x 40mm/50mm	£14.55
PTC 005	2" x 50mm/63mm	£16.46

## Threaded Tank Connector



Ref	Size (BSP)	Price
PTT 075	3/4" x 3/4"	£9.38
PTT 100	1" x 1"	£10.09
PTT 200	2" x 2"	£15.19

## Double Union Ball Valve



Ref	Size	Price
PDV 75	75mm	£79.90
PDV 90	90mm	£106.00

## Drain Valve

PDV 32  
(with elbow).



PDV 321  
(without elbow).



Ref	Size	Price
PDV 32	32mm	£3.94
PDV 321	1 1/4" Female BSP	£3.45

## PVC Cleaning Fluid

Methylene chloride cleaning solution. Should be applied to all connections with a cloth before applying adhesive.



Ref	Size	Price
PCF 01	250ml	£7.31
PCF 02	1ltr	£12.83

## Solvent Weld for PVC Pipe &amp; Fittings

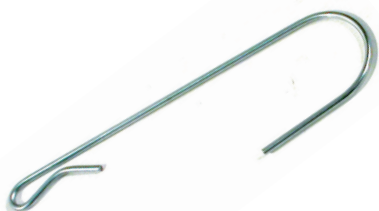


All sizes come with an application brush attached to the cap.

Type 914 glue is only suitable for pipe and fittings up to 32mm.

Ref	Size	Type	Price
PPA 02	250ml	S3	£14.95
PPA 03	1ltr	S3	£43.25



**16cm Wire Support Hooks**

For suspending over-head spray-lines from a tensioned wire.

Ref	Size	Price/100
WSH 16	16cm	£23.10

**32mm Plastic Support Hooks**

Ref	Size	Price/100
PSH 32	32mm	£17.00

**Wire Strainer**

Galvanised steel wire tensioner.

Ref	Size	Price
WTB 003	No. 3	£1.25

**Galvanised Straning Wire**

Ref	Size	Price/100
GWE 250	2.5mm x 675mtr	£69.00

**Cable Ties (100 per pack)**

Ref	Size	Price / 100
CTS 120	4.7mm x 120mm	£1.35
CTS 200	4.8mm x 200mm	£4.74
CTS 370	7.5mm x 370mm	£17.23
CTS 430	9mm x 430mm	£23.85

**PTFE Tape**

Ref	Size	Price
PTE 121	12mm x 12mtr	£0.90

**Pipe Clips**

Ref	Size	Price
PCT 16	16mm	£0.20
PCT 20	20mm	£0.22
PCT 25	25mm	£0.25

**Tube Clips**

Can be unclipped and reused.

Ref	Size	Price/100
NTC 16	16mm	£16.00
NTC 20	20mm	£19.00

**Polyprop Reducing Socket**

Adaptor for 1/2" male threaded sprinklers.

Ref	Size	Price
PRS 01	3/4" x 1/2" Female BSP	£0.69

**Anti-Drain Device (for pin nozzles)**

Prevents water draining/dribbling from spraylines before and after irrigation cycle.

**Opening pressure:**  
0.6 Bar.

**Closing pressure:**  
0.9 Bar.

**Sold in bags of 100.**

Ref	Size	Price/100
PND 38	3/8 WW (m x f)	£118.00

**Pin Nozzles**

For use where a large amount of water needs to be distributed over a limited area.



3/8 WW male threads  
360° coverage

**Sold in bags of 100.**

Ref	Flow	Colour	Price
PNB 38	3.2l/m	Brown	£98.00
PNE 38	3.6l/m	Green	£98.00
PNG 38	3.9l/m	Grey	£98.00
PNL 38	4.2l/m	Blue	£98.00
PNR 38	4.6l/m	Red	£98.00
PNO 38	4.9l/m	Orange	£98.00
PNK 38	5.3l/m	Black	£98.00



## Water Meters



Brass water meter with pulse option.



The pulse reader (optional) attaches to the sight glass and sends a pulse every 10ltrs. For irrigation water, **NOT WRC approved**.

To be installed horizontally. **Max. Temp.:** 50°C

Ref	Size	Flow		Price
		Nom.	Max.	
WMV 050	½" MBSP	1.5m³	3m³	£49.00
WMV 075	¾" MBSP	2.5m³	5m³	£69.00
WMV 100	1" MBSP	3.5m³	7m³	£89.00
WMV 125	1 ¼" MBSP	6m³	12m³	£109.00
WMV 150	1 ½" MBSP	10m³	20m³	£209.00
WMV 000	Pulse Reader c/w 1.5m cable (optional)			£9.00

## Bermad Solenoid Valves

**Max Working Pressure:** 10 Bar

**Minimum Working Pressure:** 0.7 Bar.

**Operating Current:** 24vAC

Normally closed design  
(closes when no power).



**Replacement coils for Bermad:**

24vAC solenoid valves: 24v | 125 Ma | 1.7W.

Ref	Description	Price
BSV 075	¾" Female BSP Inlet / Outlet	£20.80
BSV 100	1" Female BSP Inlet / Outlet	£20.80
BSV 150	1 ½" Female BSP Inlet / Outlet	£57.20
BSV 200	2" Female BSP Inlet / Outlet	£66.00
BSV 024	24vAC Replacement Coil	£12.70

### ¾" Adjustable Pressure Regulator (low-flow)



**Inlet diameter:**  
¾" BSP Female.

**Outlet diameter:**  
¾" BSP Male.

**Pressure Range:**  
0.8- 2.5 bar (12-36 psi).

**Flow Rate Range:**  
0.2 – 5m³/hr.

Other pressures available.

Ref	Size	Price
APR 075	¾"	£13.00

### 1" Female Pressure Regulator



**Inlet diameter:**  
1" BSP Female.

**Outlet diameter:**  
1" BSP Male.

**Pressure Range:**  
1- 2 bar (15-30 psi).

**Flow Rate Range:**  
0.4 – 8m³/hr.

Other pressures available.

Ref	Size	Price
APR 100	1"	£35.50

### 1½" Female Pressure Regulator



**Inlet diameter:**  
1½" BSP Female.

**Outlet diameter:**  
1½" BSP Male.

**Rec Pressure Range:**  
1.5- 3.5 bar (22-50 psi.)

**Rec Flow Rate Range:**  
0.5 – 18m³/hr.

Other pressures available.

Ref	Size	Price
APR 150	1 ½"	£86.30

## Valve Boxes

VCB 002



VCB 003



Ref	Description	Box Dimensions	Lid Dimensions	Price
VCB 002	Standard Box	W 33cm H 30cm L 46cm	39cm x 26cm	£35.90
VCB 003	Jumbo Box	W 45cm H 30cm L 60cm	51cm x 36cm	£49.50



# Rainwater Pipe and Fittings



All our rainwater pipe and fittings have rubber ring seals (unless otherwise stated). Pipe comes in 5m lengths with a socketed connection (inc. rubber seal) at one end. Apply pipe lubricant to both the pipe and seal for a smooth connection. Right-angled tees and bends have an 88° angle rather than 90°, which allows for a slight downwards fall when installed the correctly.

**Class 51 is for above ground use and Class 41 below with light traffic loads. Other fittings and sizes available.**

## Rainwater Drain Pipe (Ring Seal One End)



Ref	Description	Price
RDP 110	110mm OD x 5m For Above Ground Use (7.5 bar)	£30.26
GDP 160	160mm OD x 5m For Above Ground Use (Class 51)	£40.00
RDP 161	160mm OD x 5m For Below Ground Use (Class 41)	£47.84
RDP 200	200mm OD x 5m For Below Ground Use (Class 41)	£72.58

## Socket



Ref	Size	Price
RDS 160	160mm	£8.37
RDS 200	200mm	£11.11

## 45° Bend with Ring Seal (Both Ends)



Ref	Size	Price
RDB 114	110mm	£6.43
GDP 162	160mm	£15.05
RDB 202	200mm	£30.72

## 45° Bend with Ring Seal (One End)



Ref	Size	Price
RDB 161	160mm	£13.67
RDB 201	200mm	£34.88

## 88° Bend



Ref	Size	Price
RDB 110	110mm	£6.58
RBD 160	160mm	£16.92
RDB 200	200mm	£34.88

Please Note: All prices exclude VAT



# Rainwater Fittings

## 88° Equal Tee



Ref	Size	Price
RDT 110	110mm	£8.85
RDT 160	160mm	£23.37
RDT 200	200mm	£45.13

## 88° Reducing Tee



Ref	Size	Price
RDT 202	200 x 160 x 200mm	£40.73

## 45° Angled Equal Tee



Ref	Size	Price
RDT 161	160 x 160 x 160mm	£25.03
RDT 201	200 x 200 x 200mm	£46.80

## 45° Angled Reducing Tee



Ref	Size	Price
RDT 203	200 x 160 x 200mm	£42.40

## Reducing Bush



Ref	Size	Price
RDB 162	160mm x 110mm	£9.87
RDB 203	200mm x 160mm	£18.00

## End Set With Screw Cap



Ref	Size	Price
RDC 160	160mm	£14.05
RDC 201	200mm	£17.57

## End Cap (for glue)



Glue connection. See page 88 for glue.

Ref	Size	Price
RDC 200	200mm	£3.82

## Pipe and Seal Lubricant



Ref	Size	Price
GEL 080	800g	£15.95



PE100 Pipe - Black



All PE100 is 10 bar rated and guaranteed for 10 years with a life of 50 years. PE100 has increased tensile strength, water hammer resistance, floor capacity and stretch resistance over PE80. Approved for recycled and non re-potable water.

Other sizes available on request.

Ref	Outside Diam.	Length	Price
MDP 007	32mm	50m	£65.00
MDP 008	32mm	100m	£130.00
MDP 009	50mm	50m	£165.00
MDP 010	50mm	100m	£330.00
MDP 011	63mm	50m	£233.00
MDP 012	63mm	100m	£466.00

Pipe Clamps



Suitable for all types of pipe.  
16 - 32mm - No Clip.  
40 - 75mm -Clip Included.



Ref	Size	Price
PPC 161	16mm	£0.48
PPC 201	20mm	£0.56
PPC 321	32mm	£0.79
PPC 401	40mm and Clip	£1.12
PPC 501	50mm and Clip	£1.29
PPC 631	63mm and Clip	£1.76
PPC 751	75mm and Clip	£3.05

Saddle Take Off

Suitable for all types of pipe.



Ref	Size	Price
SAD 202	20mm x 1/2" Female BSP	£3.08
SAD 252	25mm x 1/2" Female BSP	£3.08
SAD 253	25mm x 3/4" Female BSP	£3.08
SAD 322	32mm x 1/2" Female BSP	£3.35
SAD 323	32mm x 3/4" Female BSP	£3.35
SAD 503	50mm x 3/4" Female BSP	£4.34
SAD 504	50mm x 1" Female BSP	£4.34
SAD 636	63mm x 1 1/2" Female BSP	£5.20

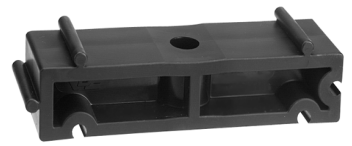
WRC Approved Blue



Blue MDPE 12.5bar pipe is WRC approved and conforms to BS 6572 SPEC S.D.R11. Suitable for potable water supplies. Larger sizes available on request.

SIZE			
Ref	O/D	Length	Price
MDP 001	20mm	50m	£42.50
MDP 002	25mm	50m	£55.50
MDP 003	32mm	50m	£94.00

20mm High Spacing Blocks For Clamps



Simply attaches to base our pipe clamps (above). Ideal when you have ball valves and unions in your pipework.

Ref	Size	Price
PPS 321	32mm	£0.40
PPS 401	40mm	£0.59
PPS 501	50mm	£0.66
PPS 631	63mm	£0.92
PPS 751	75mm	£1.54

Polypropylene Reducing Bush



Ref	Size	Price
PRB 01	3/4" x 1/2" BSP	£0.28
PRB 02	1" x 1/2" BSP	£0.39
PRB 03	1" x 3/4" BSP	£0.39
PRB 04	1 1/4" x 3/4" BSP	£0.57
PRB 05	1 1/4" x 1" BSP	£0.57
PRB 06	1 1/2" x 1" BSP	£0.69
PRB 07	2" x 1/2" BSP	£1.33
PRB 08	2" x 3/4" BSP	£1.33
PRB 09	2" x 1" BSP	£1.33
PRB10	2" x 1 1/2" BSP	£1.33

Please Note: All prices exclude VAT



## Straight Coupler



Ref	Size	Price
CSC 20	20mm x 20mm	£2.31
CSC 25	25mm x 25mm	£2.77
CSC 32	32mm x 32mm	£3.58
CSC 50	50mm x 50mm	£7.94
CSC 63	63mm x 63mm	£10.99

## Female Adaptor



Ref	Size	Price
CFA 20	20mm x 1/2"	£1.45
CFA 25	25mm x 3/4"	£1.70
CFA 32	32mm x 1"	£2.14
CFA 50	50mm x 1 1/2"	£4.78
CFA 63	63mm x 2"	£6.72

## Stop Cock Quarter Turn on/off



Double Union

Ref	Size	Price
CST 20	20mm x 20mm	£8.40
CST 25	25mm x 25mm	£9.25
CST 32	32mm x 32mm	£14.30
CST 50	50mm x 50mm	£22.00
CST 63	63mm x 63mm	£33.60

## Male Adaptor



Ref	Size	Price
CMA 20	20mm x 1/2"	£1.37
CMA 25	25mm x 3/4"	£1.55
CMA 32	32mm x 1"	£1.95
CMA 50	50mm x 1 1/2"	£4.74
CMA 63	63mm x 2"	£6.72

## End Plugs



Ref	Size	Price
CES 20	20mm	£1.56
CES 25	25mm	£1.74
CES 32	32mm	£2.14
CES 50	50mm	£5.28
CES 63	63mm	£7.17

## Equal Elbow



Ref	Size	Price
CEE 20	20mm x 20mm 90°	£2.31
CEE 25	25mm x 25mm 90°	£2.81
CEE 32	32mm x 32mm 90°	£3.51
CEE 50	50mm x 50mm 90°	£8.55
CEE 63	63mm x 63mm 90°	£10.37

## Female Branch Tee



Ref	Size	Price
CFT 20	20mm x 1/2"	£2.42
CFT 25	25mm x 1"	£3.43
CFT 32	32mm x 1"	£4.01
CFT 50	50mm x 2"	£10.99
CFT 63	63mm x 2"	£14.00

## Female Threaded Elbow



Ref	Size	Price
CFE 20	20mm x 1/2"	£1.74
CFE 25	25mm x 3/4"	£2.18
CFE 32	32mm x 1"	£2.55
CFE 50	50mm x 1 1/2"	£6.72
CFE 63	63mm x 2"	£9.16

## Universal Transition Coupler

Variable size inlet will fit any type of pipe.



Ref	Size	Price
CUC 201	15-22mm x 20mm	£8.95
CUC 202	21-27mm x 20mm	£16.80
CUC 251	15-22mm x 25mm	£9.10
CUC 252	21-27mm x 25mm	£9.52
CUC 253	27-35mm x 25mm	£10.97
CUC 321	21-27mm x 32mm	£10.47
CUC 322	27-35mm x 32mm	£11.59
CUC 323	35-50mm x 32mm	£28.45

## Equal Tee



Ref	Size	Price
CET 20	20mm x 20mm x 20mm	£3.03
CET 25	25mm x 25mm x 25mm	£4.01
CET 32	32mm x 32mm x 32mm	£5.18
CET 50	50mm x 50mm x 50mm	£11.58
CET 63	63mm x 63mm x 63mm	£16.48

## Plastic Pipe Stiffener



For use with blue MDPE pipe only.

Ref	Size	Price
CPI 20	20mm	£0.75
CPI 25	25mm	£0.67
CPI 32	32mm	£0.67
CPI 50	50mm	£1.37
CPI 63	63mm	£2.30

## Wall Plate Elbow



Ref	Size	Price
CWP 20	20mm x 1/2"	£4.44
CWP 25	25mm x 3/4"	£5.33



## Brass Hose Couplings, Taps and Valves

Hose Tail			Female Threaded			Male Threaded			Cap		
											
Ref	Size	Price	Ref	Size	Price	Ref	Size	Price	Ref	Size	Price
QCH 50	1/2"	£2.54	QCF 50	1/2"	£2.58	QCM 50	1/2"	£2.50	QCC 001	Universal	£2.70
QCH 75	3/4"	£2.73	QCF 75	3/4"	£2.58	QCM 75	3/4"	£2.62			
QCH 100	1"	£3.29	QCF 100	1"	£2.69	QCM 100	1"	£2.69			
QCH 125	1 1/4"	£4.32	QCF 125	1 1/4"	£3.83	QCM 125	1 1/4"	£3.34			
QCH 150	1 1/2"	£5.68	QCF 150	1 1/2"	£4.66	QCM 150	1 1/2"	£4.18			

Hose Coupling			'Y' Connection			Universal seal			Jubilee Hose Clips		
											
Ref	Size	Price	Ref	Size	Price	Ref	Size	Price	Ref	Size	Price
QCC 50	1/2"	£5.34	QCY 001	Universal	£12.85	QCS 001	Universal	£0.27	WDC 002	1/2"	£0.66
QCC 75	3/4"	£6.07							WDC 003	3/4"	£0.73
									WDC 004	1"	£0.81

## Brass Click-Fit Connectors

Female Click Fit Adaptor			Male Click Fit Adaptor			Click-Fit Double Male Connector			2 Way Tap Outlet		
											
Ref	Size	Price	Ref	Size	Price	Ref	Size	Price	Ref	Size	Price
CFA 75	3/4" F	£2.09	CMA 75	3/4" M	£2.02	CMC 01	3/4" M	£2.45	CDT 75	1/2"	£16.91

Click-Fit Hose End Adaptor			Click-Fit Hose Joiner			Female Hose Tail			Male Hose Tail		
											
Ref	Size	Price	Ref	Size	Price	Ref	Size	Price	Ref	Size	Price
CHC 50	1/2"	£5.62	CHJ 50	1/2"	£4.65	FHT 50	1/2"	£1.80	MHT 50	1/2"	£2.56
CHC 75	3/4"	£6.75	CHJ 75	3/4"	£6.01	FHT 75	3/4"	£2.71	MHT 75	3/4"	£3.37
						FHT 100	1"	£3.70	MHT 100	1"	£5.40
						FHT 150	1 1/2"	£11.32	MHT 150	1 1/2"	£13.58
						FHT 200	2"	£16.17	MHT 200	2"	£19.52

Please Note: All prices exclude VAT



**Hose Pour Tap**

Outlet thread size with hoesail removed, 3/4", 1" and 1 1/4" retrospectively.

Ref	Inlet	Hose Tail	Price
HPT 050	1/2" MBSP	1/2"	£10.30
HPT 075	3/4" MBSP	3/4"	£14.40
HPT 100	1" MBSP	1"	£24.90

**Brass Gate Valve**

Ref	Size	Price
BGV 050	1/2" FBSP	£5.50
BGV 075	3/4" FBSP	£7.90
BGV 100	1" FBSP	£10.60
BGV 125	1 1/4" FBSP	£17.10
BGV 150	1 1/2" FBSP	£21.30
BGV 200	2" FBSP	£31.90
BGV 300	3" FBSP	£79.20

**Metal Ball Valve (full flow)**

Stainless Steel Handle. PTFE Seal.

Ref	Size	Price
MBV 050	1/2" FBSP	£9.40
MBV 075	3/4" FBSP	£13.90
MBV 100	1" FBSP	£18.60
MBV 125	1 1/4" FBSP	£33.40
MBV 150	1 1/2" FBSP	£46.30
MBV 200	2" FBSP	£73.20

**Brass Foot Valve**

Ref	Size	Price
BFV100	1" FBSP	£15.60
BFV150	1 1/2" FBSP	£34.60
BFV200	2" FBSP	£48.60

**Brass Check / Non Return Valve**

Ref	Size	Price
BCV050	1/2" FBSP	£6.74
BCV075	3/4" FBSP	£9.14
BCV100	1" FBSP	£12.55
BCV125	1 1/4" FBSP	£19.70
BCV150	1 1/2" FBSP	£28.85
BCV200	2" FBSP	£41.80

**Chrome Bib Tap**

Ref	Size	Price
BBT 050	160mm	£9.99
BBT 075	200mm	£19.99

**2-Way Outlet Tap**

3/4" FBSP inlet and 3/4" MBSP outlet

Ref	Size	Price
MAN 235	2-Way Tap Outlet	£20.37

**3-Way Outlet Tap**

3/4" FBSP inlet and 3/4" MBSP outlet

Ref	Size	Price
MAN 375	3-Way Tap Outlet	£29.72

**Small Alloy Rose**

Ref	Description	Price
ROS 004	Ball Valve for Metal Soft Rain Lance	£6.30



## Heavy Duty Hose Trolley

**Capacity:**

120m - 150m of 19mm (¾") hose.

**Max Pressure:**

10 Bar .

**Inlet:** ¾" Male BSP.**Outlet:** Fitted with ¾" brass hose connection.**Frame:** Powder coated steel frame.

Pneumatic wheels.

**Dimensions:**

65cm W.

80cm D.

118cm H.



Hose Pipe not included.



Ref	Price
HRT 006	£199.00

## 3/4" Hose Trolley

**Capacity:**

Up to 80mtr of ¾" ID hose.

**Max Pressure:**

10 Bar.

**Inlet:**

Male garden hose QR adaptor.

**Outlet:**

¾" Male BSP hose connection.

**Frame:**

Powder coated steel frame.

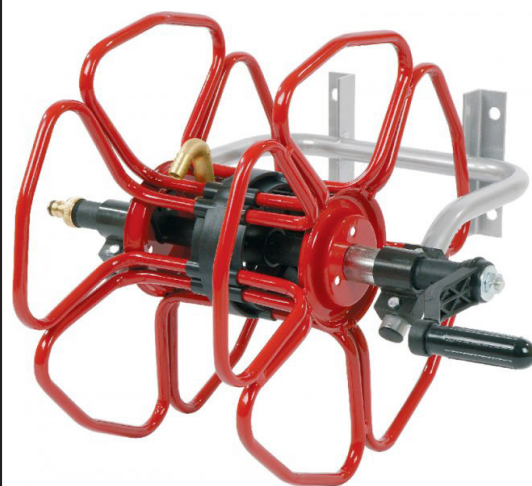
PVC reel axle, solid wheels.

**Dimensions:**

60cm W x 55cm D x 80cm H.

Ref	Price
HRT 003	£199.00

## Wall Mounted Hose Reel

**Capacity:** Up to 60mtr of ½" ID hose.**Max Pressure:** 10 Bar.**Inlet:** Click-Fit hose adaptor.**Outlet:** ½" Brass hose-tail.**Frame:**

Powder coated steel frame, PVC reel axle.

**Dimensions:**

36cm W x 40cm D x 45cm H.

**Mounting Holes:**

180mm x 100mm.

Ref	Price
HRT 005	£136.00



## Aluminium Soft Rain Lances (Complete with hose couplers and rose)



Max Output of 50 l/min.

**Inlet:** Quick coupling (3/4" Male BSP.)

**Outlet:** Threaded 3/4" Male BSP.

Ref	Description	Price
LAN 001	40cm Soft Rain Lance	£31.60
LAN 002	60cm Soft Rain Lance	£33.60
LAN 003	90cm Soft Rain Lance	£36.00
LAN 004	120cm Soft Rain Lance	£39.40

## Industrial Spray Pistol

1/2" Female BSP Connection.

Hose adapter required (see page 97).



Ref	Description	Price
LAN 15	Spray Pistol	£45.00

## Trigger Lances



Aluminium trigger lance.

**Outlet:** Threaded 3/4" Male.

**Inlet:** Threaded 3/4" Female.

NOTE: Hose connection and rose not supplied.

Ref	Description	Price
LAN 010	40cm Trigger Lance	£33.60
LAN 011	60cm Trigger Lance	£35.70
LAN 012	90cm Trigger Lance	£38.52
LAN 013	120cm Trigger Lance	£43.30

## Adjustable Metal Spray Gun



**Hose Connection:** Click fit.

**Material:** Zamac.

**Colour:** Grey / Black.

**Inlet:** 3/4" Female BSP.

Ref	Description	Price
LAN 16	Metal Spray Gun	£8.95

## Heavy Duty Hose Pipe

**Pressure rating (under constant pressure):**

1/2" = 10 bar

3/4" = 8 bar

1" = 7 bar

**Max temperature:** 60°C.

Flexible PVC braided hose. Extremely hard wearing, anti-kink hose. Used by professional landscapers, plant nurseries and garden centres.

Ref	Inside Diam.	Coil Length	Price
THA 025	1/2" (12.5mm)	25m	£28.00
THA 050	1/2" (12.5mm)	50m	£52.00
THA 100	1/2" (12.5mm)	100m	£98.00
THB 025	3/4" (19mm)	25m	£46.00
THB 050	3/4" (19mm)	50m	£85.00
THB 100	3/4" (19mm)	100m	£159.00
THC 025	1" (25mm)	25m	£72.00
THC 050	1" (25mm)	50m	£133.00
THC 100	1" (25mm)	100m	£248.00

## Roses



**Best Seller**

PICTURE	Ref	Description	Price
1	ROS 004	Ball Valve for Metal Soft Rain Lance	£6.30
2	ROS 001	Small Alloy Rose - 3/4" Female BSP connection	£10.50
3	ROS 002	<b>BEST SELLER</b> - Large Alloy Rose - 3/4" Female BSP connection	£7.10
4	ROS 003	Large Plastic Rose - 3/4" Female BSP connection	£5.40
5	ROS 005	Brass 'Shower' Rose with rubber bumper - 3/4" Female BSP connection	£39.00



## Heron Mi Irrigation Controllers



## Features:

Industrial quality controllers with exceptional reliability for the demanding commercial environment.  
 Operates up to 4, 8, 12 or 16 valves depending on controller.  
 Superb range of software, loaded with innovative features which can be customised to meet your needs.  
 Valves can be individually named.  
 Create irrigation programs, running any valve in any order.  
 Run up to 6 valves in parallel.  
 Large display and menu driven operation.  
 Integrable with light, humidity and moisture sensors and dosing systems.

Ref	Description	Price
HMI 004	4 Valve Heron Controller	£255.56
HMI 008	8 Valve Heron Controller	£300.00
HMI 012	12 Valve Heron Controller	£360.00
HMI 016	16 Valve Heron Controller	£435.00
HLS 001	Heron Light Sensor	£190.00
HMS 002	Heron Rain Sensor	£131.00
HHS 003	Heron Humidity Sensor	£278.00

## Galcon 8100-GQ



- Indoor controller
- 3 Programs A B C
- Plug in transformer supplied

**Duration:** 1 minute - 4 hours.

**Start:** Daily, 4 starts a day.

Manual operation by program or individual valve.  
 Operates the 24vAC Bermad solenoid valves.

Ref	Description	Price
IRT 004	4 Station Controller	£58.00
IRT 008	8 Station Controller	£62.20

## Grease Filled Crimps

Handy grease filled cable connectors for low voltage cable. Simply crimps shut using pliers.

Suitable for cables up to 1.5mm diam.



Ref	Description	Price
GFC 001	Grease Filled Connector	£0.38

## Low Voltage Multi-Core Cable



Widely used for wiring 24vAC solenoid valves to your control panel. The orange cable crimps (below) can be used to connect to your solenoid valves. For above ground use. If buried then feed through a suitable conduit e.g. 20mm PVC pipe (page 87).

**Operating temperature:** -15°C to 70°C

**Outer sheath:** Fire retardant PVC

**Max operating voltage:** 150v

**Outer sheath colour:** Grey

**Core material:** Copper **Core diameter:** 0.8mm

**Core insulation:** PVC

Ref	No. Cores	Roll Length	Price
LVC 004	4 Core	100m	£75.70
LVC 006	6 Core	100m	£110.10
LVC 008	8 Core	100m	£147.00
LVC 010	10 Core	100m	£200.00
LVC 012	12 Core	100m	£228.00
LVC 014	14 Core	100m	£269.90
LVC 016	16 Core	100m	£303.50
LVC 020	20 Core	100m	£383.80
LVC 024	24 Core	100m	£454.30



## Dial Control Timer



- 63 preset programs (plus off and 5-minute test).
- Easy programming by way of 2 dials: one with 7 watering cycles, the other with 9 watering times.
- Ideal for gardeners who find digital timers too complicated.
- Electronic components are perfectly sealed.
- Supplied with 1/2" hose connector.

Ref	Price
BOT 01	£40.83

No. of Lines	Power	Pressure	Inlet	Outlet
Single	1 x 9v Battery	0.2 to 12 bar	3/4" Female BSP	1/2" Male BSP

## Digital Control Timer



- 3 programming buttons and easy to read digital screen.
- 2 daily watering cycles of varying lengths ranging from 1 minute to a max of 23hr and 59 mins.
- Weekly watering cycles may also be programmed (and stored).
- Display clearly denotes all information with simple symbols & numbers.
- Electronic components are perfectly sealed.
- Supplied with 1/2" hose connector.

Ref	Price
BOT 02	£49.16

No. of Lines	Power	Pressure	Inlet	Outlet
Single	1 x 9v Battery	0.1 to 12 bar	3/4" Female BSP	1/2" Male BSP

## Dual Outlet Timer

- Two-way irrigation timer with up to three irrigation cycles a day for each of the two irrigation lines.
- Each watering cycle can have varying lengths from 1 minute to 23hr 59mins.
- 3 button functionality for easy programming.
- Electronic components are perfectly sealed.
- Supplied with 1/2" hose connector.



Ref	Price
BOT 03	£74.16

No. of Lines	Power	Pressure	Inlet	Outlet
Twin	1 x 9v Battery	0.1 to 12 bar	3/4" Female BSP	1/2" Male BSP

## Inline Timer



- Up to 6 irrigation cycles per day from 1min to 23rs 59mins.
- 100% sealed lid and will work in total submersion.
- Electronic section can be removed from the valve for easy programing and winter storage.
- Can be installed horizontally or vertically above ground or below.

## Operating Pressure:

0.5 Bar - 12 Bar:

Ref	Size	Price
BOT 04	1" FBSP Inlet/Outlet	£77.80



# Water Filters

## Screen Filters



3/4" Male Filter



1" Male Filter



1 1/2" Male Filter



2" Male Filter

Amiad TAGLINE® filters are made from high quality engineered plastic materials providing excellent mechanical strength and durability.

Amiad's TAGLINE® filters are easy to maintain; no tools are needed for extracting the filter element from the filter housing for rinsing. Filter includes 130 micron (120 mesh) filtration screen.

**Max working pressure:** 8 bar (115psi)

Ref	Flow	Description	Price
PWF 075	3 m³/h	3/4" Male BSP Filter	£8.80
PWF 100	7 m³/h	1" Male BSP Filter	£9.70
PWF 150	15 m³/h	1 1/2" Male BSP Filter	£55.10
PWF 200	25 m³/h	2" Male BSP Filter	£107.40

## Sand Filters

Sand filters are employed for the effective filtration of algae, especially where large volumes of stored water are subject to daylight, such as lagoons and large open tank systems. Filtration is carried out through a deep bed of aggregate (course sand/fine gravel). The degree of filtration largely depends upon the size of the aggregate particles and the depth of the filtration bed i.e. fine aggregate for drip systems and course aggregate for sprinklers. Water enters through the top inlet where it's sprayed over the top layer of the sand/aggregate. As it percolates through the filtration media any organic material is trapped and clean water exits from the bottom of the tank.

Finally, the clean water passes through a secondary screen filter to remove any broken-down sand particles that may have escaped. As the filtration media becomes clogged with organic matter over time, the system is temporarily backflushed by reversing the flow of water. Any trapped organic matter is released and rises above the heavier aggregate to be flushed out of a top waste exit. This process can be carried out automatically when a pressure differential is reached between the inlet and outlet pressures, and is also backed up with a time based backflush.

Sand filter arrays (several tanks abreast) can be installed where larger flow rates are required and to allow individual tank backflushing without interrupting the irrigation cycle. Arrays can also be mounted on metal skids for use on remote sites such as field irrigation. Flow rates available from 100 ltr/min to 1,400 ltr/min, with 1" BSP to 4" flanged connections.



**Price on application**





# Fertilisers and Chemical Injectors

**For your crops:** Exactly the right dose, when and where needed.

**For your personnel:** Less handling of concentrates.

**Precise dosing:** Avoid waste.



**DOSATRON®**

The dispenser is completely hydraulic - needs no electrical connections. Set it, leave it - needs no further attention.

The dispenser is easily installed in the water line.



If you require the pipe and fittings to create a bypass please call 01282 873120

## Units for General Fertiliser Use

Image	Ref	Model	Flow rate (ltr/hr)	Dose Range (%)	Operating Pressure	Connections	Price
1	DOS 01	DO7RE125	5-700	0.15-1.25	0.3-6.0 bar	¾" Male BSP	£334.00
2	DOS 02	D3GL2 (Greenline)	10-3,000	0.2-2.0	0.3-6.0 bar	¾" Male BSP	£368.00
3	DOS 04	D45RE1.5	100-4,500	0.2-1.5	0.5-5.0 bar	1¼" Male BSP	£560.00
4	DOS 05	D8GL2	500-8,000	0.2-2.0	0.15-8.0 bar	1½" Male BSP/50mm	£868.00
5	DOS 06	D20GL2	1,000-20,000	0.2-2.0	0.12-10.0 bar	2" Male BSP/63mm	£1,874.00
6	DOS 07	D30S TURBO	10,000-30,000	0.25-1.25	1.0-8.0 bar	2" M x F BSP	£2,292.00
7	DOS 12	Two-Wheeled Trolley with 25ltr Barrel and D3GL3 (Greenline)					£586.00

## White (PVDF Body) Units Suitable for Nitric Acid (30%)

Image	Ref	Model	Flow rate (ltr/hr)	Dose Range (%)	Operating Pressure	Connections	Price
-	DOS 08	DO7RE125	5-700	0.15-1.25	0.3-6.0 bar	¾" Male BSP	£360.00
-	DOS 09	D3RE2	10-3,000	0.2-2.0	0.3-6.0 bar	¾" Male BSP	£492.00
-	DOS 10	D3RE5	10-3,000	0.5-5.0	0.3-6.0 bar	¾" Male BSP	£652.00
-	DOS 11	D45RE1.5	100-4,500	0.2-1.5	0.5-5.0 bar	1¼" Male BSP	£778.00



## Jet Pumps



Self-priming centrifugal pump with excellent suction capacity even when there are air bubbles.

Particularly suitable for water supply in domestic installations, small-scale agriculture, gardening and wherever self-priming operation is necessary.

Ref	Model	Max lpm	Max Pressure BAR	Volts	HP (kW)	Inlet size	Outlet size	Price
PUM 001	Jet 82 M	50	4.5 bar	230	0.8 (0.59)	1" F BSP	1" F BSP	£177.00
PUM 002	Jet 122 M	60	5.4 bar	230	1.2 (0.89)	1" F BSP	1" F BSP	£193.00
PUM 003	Jet 202 M	160	5.4 bar	230	2 (1.47)	1 1/2" F BSP	1 1/4" FBSP	£420.00

## Booster Pumps



Automatic water lifting units, suitable for domestic use, small installations for civil, agricultural, industrial use, washing and hobby applications.

The unit is equipped with a stainless steel self priming pump, vessel, pressure switch for automatic operation, pressure gauge, connecting hose, all pre-assembled.

Ref	Model	Max lpm	Max Pressure BAR	Volts	HP (kW)	Vessel Size	Inlet size	Outlet Size	Price
PUM 010	JEXI 82M	40	4.2 bar	230	0.8 (0.59)	22ltr	1" F BSP	1" F BSP	£315.00
PUM 011	JEXI 100M	50	4.9 bar	230	1 (0.75)	25ltr	1" F BSP	1" F BSP	£326.00
PUM 012	JEXI 122M	60	5.4 bar	230	1.2 (0.89)	25ltr	1" F BSP	1" F BSP	£375.00

## MKV Multistage



Single phase, centrifugal pump ideal for pressure sets, sprinkler and irrigation systems.

Liquid quality requirements: Clean, free from solids or abrasive substances, non-viscous, non-aggressive, non-crystallized, chemically neutral, close to the characteristics of water.

**Motor Protection:** IP 55  
**Insulation Class:** F



Ref	Model	Max lpm	Max Pressure	Volts	HP (kW)	Inlet Size	Outlet Size	Price
PUM 025	MVK 9/05M	200	5.8 bar	230	1.5 (1.11)	1 1/2" F BSP	1 1/4" F BSP	£456.00
PUM 026	MKV 9/07M	200	8 bar	230	2.5 (1.86)	1 1/2" F BSP	1 1/4" F BSP	£568.00

Please Note: All prices exclude VAT



## Pressure Switches, Gauges and Fittings

### Glycerine Filled Pressure Gauge

**Connection:** 1/4" male bsp thread.

**Type:** Glycerine filled.

**Connection type:** bottom connection.

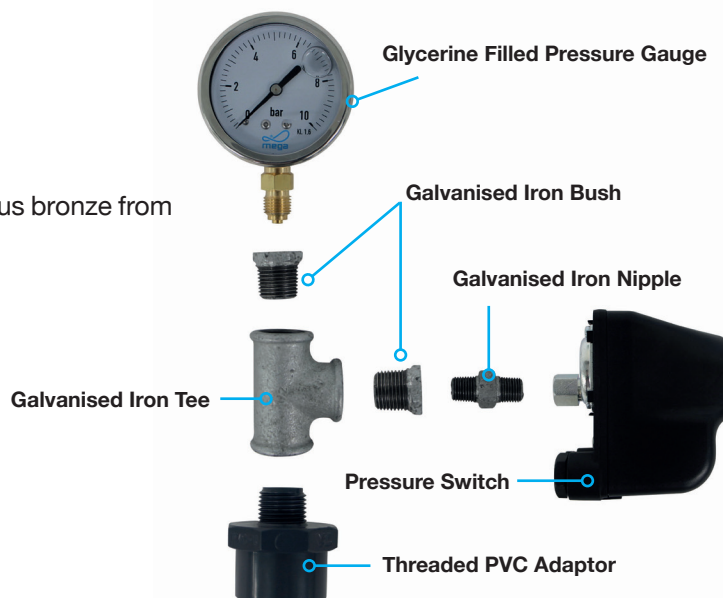
**Casing:** 63mm diameter stainless steel.

**Bourdon tube:** copper alloy up to 40 bar phosphorous bronze from 60 bar.

**Connection nipple:** brass.

**Accuracy class:** 1.6 %.

**Scale:** 0 - 10 bar.



### Pressure switch, type PM/12

**Connection:** 1/4" female BSP thread.

**Ampere:** 16 A.

**Voltage:** 230V.

**Adj. pressure:** 2 - 12 bar.

Ref	Description	Connection	Price
PPG 001	Glycerine Filled Pressure Gauge (10 Bar)	1/4" Male BSP thread	£12.00
PSW 001	Pressure Switch (2 - 12 Bar)	1/4" Female BSP thread	£20.60
PSW 002	Pressure Switch (1 - 5 Bar)	1/4" Female BSP thread	£18.60
MFB 001	Galvanised Iron Bush (1/2" x 1/4")	1/2" Male BSP x 1/4" Female BSP	£0.90
FET 001	Galvanised Iron Tee (1/2")	1/2" Female BSP	£1.63
GMN 001	Galvanised Iron Nipple (1/4")	1/2" Male BSP	£1.43
PMT 322	32mm x 1/2" MBSP Threaded PVC Adaptor	32mm (Glue) x 1/2" Male Adaptor	£0.75

## Pressure Vessels



All our Varem pressure vessel have butyl, replaceable membranes. All pressure vessels are supplied with stainless steel bottom flanges and have WRAS approval for potable water applications. Vessels are supplied pre-charged with air, but this pressure may require adjustment to suit the site conditions this adjustment must be made with the vessel isolated from the system and before filling with water.

The air pressure in these vessels should be 0.2 bar below the pressure. Check every 3-4 months and top up if necessary.

Image	Ref	Description	Outlet Size	Pressure	Price
1	PUM 041	20ltr Varaem Horizontal	1" Male BSP	10 Bar	£40.40
1	PUM 042	60ltr Varaem Horizontal	1" Male BSP	10 Bar	£136.50
1	PUM 043	100ltr Varaem Horizontal	1" Male BSP	10 Bar	£228.80
1	PUM 044	200ltr Varaem Horizontal	1" Male BSP	10 Bar	£494.00
2	PUM 045	20ltr Varaem Vertical	1" Male BSP	10 Bar	£35.00
3	PUM 046	60ltr Varaem Vertical	1" Male BSP	10 Bar	£131.70
3	PUM 047	100ltr Varaem Vertical	1" Male BSP	10 Bar	£223.80
3	PUM 048	200ltr Varaem Vertical	1 1/2" Male BSP	10 Bar	£377.00



# Steel Water Storage Tanks



Tank Diameter		Tank Height		Capacity		No. of Rings	Steel Kit	
FEET	METRES	FEET	METRES	GALLONS	LITRES		REF	PRICE
6ft	1.83m	5ft	1.52m	880 gal	4,000 ltr	2	WTS 062	£230.77
6ft	1.83m	7ft 6in	2.29m	1,320 gal	6,000 ltr	3	WTS 063	£326.15
6ft	1.83m	10ft	3.05m	1,760 gal	8,000 ltr	4	WTS 064	£412.31
9ft	2.74m	5ft	1.52m	1,980 gal	9,000 ltr	2	WTS 092	£386.15
9ft	2.74m	7ft 6in	2.29m	2,970 gal	13,500 ltr	3	WTS 093	£476.92
9ft	2.74m	10ft	3.05m	3,960 gal	18,000 ltr	4	WTS 094	£618.46
12ft	3.66m	5ft	1.52m	3,520 gal	16,000 ltr	2	WTS 122	£438.46
12ft	3.66m	7ft 6in	2.29m	5,280 gal	24,000 ltr	3	WTS 123	£627.69
12ft	3.66m	10ft	3.05m	7,040 gal	32,000 ltr	4	WTS 124	£758.57
15ft	4.57m	5ft	1.52m	5,500 gal	25,000 ltr	2	WTS 152	£543.08
15ft	4.57m	7ft 6in	2.29m	8,270 gal	37,500 ltr	3	WTS 153	£722.86
15ft	4.57m	10ft	3.05m	11,010 gal	50,000 ltr	4	WTS 154	£948.57
18ft	5.49m	5ft	1.52m	7,920 gal	36,000 ltr	2	WTS 182	£647.69
18ft	5.49m	7ft 6in	2.29m	11,890 gal	54,000 ltr	3	WTS 183	£865.71
18ft	5.49m	10ft	3.05m	15,850 gal	72,000 ltr	4	WTS 184	£1,211.43
21ft	6.4m	5ft	1.52m	10,790 gal	49,000 ltr	2	WTS 212	£753.85
21ft	6.4m	7ft 6in	2.29m	16,180 gal	73,500 ltr	3	WTS 213	£1,011.43
21ft	6.4m	10ft	3.05m	21,580 gal	98,000 ltr	4	WTS 214	£1,382.86
24ft	7.32m	5ft	1.52m	14,090 gal	64,000 ltr	2	WTS 242	£825.71
24ft	7.32m	7ft 6in	2.29m	21,140 gal	96,000 ltr	3	WTS 243	£1,252.86
24ft	7.32m	10ft	3.05m	28,180 gal	128,000 ltr	4	WTS 244	£1608.00
27ft	8.23m	5ft	1.52m	17,830 gal	81,000 ltr	2	WTS 272	£935.71
27ft	8.23m	7ft 6in	2.29m	26,750 gal	121,500 ltr	3	WTS 273	£1,384.29
27ft	8.23m	10ft	3.05m	35,670 gal	162,000 ltr	4	WTS 274	£1,773.33
30ft	9.14m	5ft	1.52m	22,020 gal	100,000 ltr	2	WTS 302	£1,038.57
30ft	9.14m	7ft 6in	2.29m	33,030 gal	150,000 ltr	3	WTS 303	£1,500.00
30ft	9.14m	10ft	3.05m	44,040 gal	200,000 ltr	4	WTS 304	£2,208.00
36ft	10.97m	5ft	1.52m	31,710 gal	144,000 ltr	2	WTS 362	£1,390.00
36ft	10.97m	7ft 6in	2.29m	47,560 gal	216,000 ltr	3	WTS 363	£1,965.33
36ft	10.97m	10ft	3.05m	63,410 gal	288,000 ltr	4	WTS 364	£2,846.67

Please Note: All prices exclude VAT

Carriage may be charged to certain geographical locations



## LINERS FOR STEEL TANKS

Our tanks are a high quality, durable solution for the permanent or temporary storage of water, for use in horticulture, agriculture, fire-fighting, fish farming etc. Liners which are suitable for drinking water, effluent/slurry etc can also be supplied.

**Construction**

Our tanks are supplied in kit form and are easy to construct with just two people. The steelwork kit includes all the necessary nuts, bolts, washers, anchor brackets and plastic capping.

Ideally, they should be erected on a smooth, level, concrete base not less than 4" thick (depending on size), and 60cm (2ft) greater in diameter than the tank.

Full instructions (with base preparations) available by email.

**Options**

Rubber tank liners are available in two thicknesses, 0.75mm and 1.00mm. Although the 1.00mm liner is 1/3rd (33.33%) thicker than the 0.75mm liner it only costs around 10% more.

**Extras**

Please state the size of your required outlet holes when ordering your steel tank kit (if required). Take-off units (tank connectors) are not included.

Please call for a comprehensive quotation including all the inlet and outlet fittings. Remember to check the size of your mains water supply pipe so we can quote the correct size of ball float-valve and brackets etc.

The steel tank kit and the liners are sold separately.

A range of covers are available to suit each installation – call our sales team for more information.

Tank Diameter		Tank Height		0.75mm Thick Liner		1.00mm Thick Liner	
FEET	METRES	FEET	METRES	REF	PRICE	REF	PRICE
6ft	1.83m	5ft	1.52m	WTL 062	£179.30	WTL 062A	£196.26
6ft	1.83m	7ft 6in	2.29m	WTL 063	£223.39	WTL 063A	£255.62
6ft	1.83m	10ft	3.05m	-	-	WTL 064A	£339.36
9ft	2.74m	5ft	1.52m	WTL 092	£286.36	WTL 092A	£313.92
9ft	2.74m	7ft 6in	2.29m	WTL 093	£367.98	WTL 093A	£404.02
9ft	2.74m	10ft	3.05m	-	-	WTL 094A	£529.10
12ft	3.66m	5ft	1.52m	WTL 122	£331.94	WTL 122A	£364.80
12ft	3.66m	7ft 6in	2.29m	WTL 123	£418.86	WTL 123A	£460.20
12ft	3.66m	10ft	3.05m	-	-	WTL 124A	£593.76
15ft	4.57m	5ft	1.52m	WTL 152	£445.36	WTL 152A	£488.82
15ft	4.57m	7ft 6in	2.29m	WTL 153	£553.48	WTL 153A	£608.60
15ft	4.57m	10ft	3.05m	-	-	WTL 154A	£776.08
18ft	5.49m	5ft	1.52m	WTL 182	£578.56	WTL 182A	£634.74
18ft	5.49m	7ft 6in	2.29m	WTL 183	£708.94	WTL 183A	£777.84
18ft	5.49m	10ft	3.05m	-	-	WTL 184A	£979.24
21ft	6.4m	5ft	1.52m	WTL 212	£719.54	WTL 212A	£789.50
21ft	6.4m	7ft 6in	2.29m	WTL 213	£871.12	WTL 213A	£956.98
21ft	6.4m	10ft	3.05m	-	-	WTL 214A	£1,191.24
24ft	7.32m	5ft	1.52m	WTL 242	£873.24	WTL 242A	£960.16
24ft	7.32m	7ft 6in	2.29m	WTL 243	£990.04	WTL 243A	£1,150.96
24ft	7.32m	10ft	3.05m	-	-	WTL 244A	£1,418.08
27ft	8.23m	5ft	1.52m	WTL 272	£1,041.78	WTL 272A	£1,144.60
27ft	8.23m	7ft 6in	2.29m	WTL 273	£1,236.82	WTL 273A	£1,359.78
27ft	8.23m	10ft	3.05m	-	-	WTL 274A	£1,660.82
30ft	9.14m	5ft	1.52m	WTL 302	£1,223.04	WTL 302A	£1,344.94
30ft	9.14m	7ft 6in	2.29m	WTL 303	£1,439.28	WTL 303A	£1,583.44
30ft	9.14m	10ft	3.05m	-	-	WTL 304A	£1,917.34
36ft	10.97m	5ft	1.52m	WTL 362	£1,626.90	WTL 362A	£1,789.08
36ft	10.97m	7ft 6in	2.29m	WTL 363	£1,782.04	WTL 363A	£2,075.28
36ft	10.97m	10ft	3.05m	-	-	WTL 364A	£3,096.06



## Steel Tank Covers

Steel Tank With Anti-Algae Cover



### Anti-Algae (Blackout) Covers

Anti Algae tank covers are tailored to suit the size of each tank. Supplied with one inlet hood (extra inlet hoods £30.00 each)

A strengthened top seam sits on the top edge with a skirt tightly fitting around the top ring of the tank. Secured with adjustable straps that attach to the supplied eyebolts, this cover is an ideal solution where algae is a problem and the water needs to be protected from UV and wind borne debris. The anti algae cover allows rainwater to permeate through maximising the tank as a storage and collection facility. 18ft diameter covers and above are supplied with a central support pole.

Steel Tank With Steel Cover



### Floating Covers

These covers are fabricated from tough 400 micron PVC with integral flotation bubbles. They offer a cost effective deterrent to algae growth and debris built up in your tank. Our standard covers are supplied in diameters from 2.74m (9') up to 10.97m (36') but larger sizes are available.

### Steel Covers

These ten degree sloping galvanised steel roofs come with a centre spinning and permanent centre support and an eaves access hatch with safety bars to deter unauthorised access to the tank.

Tank Diameter		Tank Height		Net Covers		Floating Covers		Anti Algae Covers		Steel Covers	
Ft	Mtrs	Ft	Mtrs	Ref	Price	Ref	Price	Ref	Price	Ref	Price
9ft	2.74m	5ft	1.52m	COV 001	£90.00	COV 010	£85.86	WTA 092	£280.00	WTC 092	£825.71
9ft	2.74m	7ft 6in	2.29m	COV 001	£90.00	COV 010	£85.86	WTA 092	£280.00	WTC 093	£825.71
9ft	2.74m	10ft	3.05m	COV 001	£90.00	COV 010	£85.86	WTA 092	£280.00	WTC 094	£825.71
12ft	3.65m	5ft	1.52m	COV 002	£100.00	COV 011	£135.87	WTA 122	£338.57	WTC 122	£1,007.14
12ft	3.65m	7ft 6in	2.29m	COV 002	£100.00	COV 011	£135.87	WTA 122	£338.57	WTC 123	£1,007.14
12ft	3.65m	10ft	3.05m	COV 002	£100.00	COV 011	£135.87	WTA 122	£338.57	WTC 124	£1,007.14
15ft	4.57m	5ft	1.52m	COV 003	£120.00	COV 012	£186.83	WTA 152	£394.29	WTC 152	£1,228.57
15ft	4.57m	7ft 6in	2.29m	COV 003	£120.00	COV 012	£186.83	WTA 152	£394.29	WTC 153	£1,228.57
15ft	4.57m	10ft	3.05m	COV 003	£120.00	COV 012	£186.83	WTA 152	£394.29	WTC 154	£1,228.57
18ft	5.48m	5ft	1.52m	COV 004	£130.00	COV 013	£264.58	WTA 182	£657.14	WTC 182	£1,360.00
18ft	5.48m	7ft 6in	2.29m	COV 004	£130.00	COV 013	£264.58	WTA 183	£657.14	WTC 183	£1,360.00
18ft	5.48m	10ft	3.05m	COV 004	£130.00	COV 013	£264.58	WTA 184	£657.14	WTC 184	£1,360.00
21ft	6.40m	5ft	1.52m	COV 005	£160.00	COV 014	£336.35	WTA 212	£702.86	WTC 212	£1,908.00
21ft	6.40m	7ft 6in	2.29m	COV 005	£160.00	COV 014	£336.35	WTA 213	£702.86	WTC 213	£1,908.00
21ft	6.40m	10ft	3.05m	COV 005	£160.00	COV 014	£336.35	WTA 214	£702.86	WTC 214	£1,908.00
24ft	7.31m	5ft	1.52m	COV 006	£180.00	COV 015	£427.53	WTA 242	£795.71	WTC 242	£2,280.00
24ft	7.31m	7ft 6in	2.29m	COV 006	£180.00	COV 015	£427.53	WTA 243	£795.71	WTC 243	£2,280.00
24ft	7.31m	10ft	3.05m	COV 006	£180.00	COV 015	£427.53	WTA 244	£795.71	WTC 244	£2,280.00
30ft	9.14m	5ft	1.52m	COV 007	£200.00	COV 016	£639.41	WTA 302	£977.14	WTC 302	£3,812.50
30ft	9.14m	7ft 6in	2.29m	COV 007	£200.00	COV 016	£639.41	WTA 303	£977.14	WTC 303	£3,812.50
30ft	9.14m	10ft	3.05m	COV 007	£200.00	COV 016	£639.41	WTA 304	£977.14	WTC 304	£3,812.50
36ft	10.97m	5ft	1.52m	COV 008	£250.00	COV 017	£890.40	WTA 362	£1,200.00	WTC 362	£5,125.00
36ft	10.97m	7ft 6in	2.29m	COV 008	£250.00	COV 017	£890.40	WTA 363	£1,200.00	WTC 363	£5,125.00
36ft	10.97m	10ft	3.05m	COV 008	£250.00	COV 017	£890.40	WTA 364	£1,200.00	WTC 364	£5,125.00

Please Note: All prices exclude VAT



## Internal Tank Strainers



Attaches to the tank outlet (on the inside of the tank) to prevent water tank debris from entering your pump.

Ref	Size	Price
ITS 200	2" x 1m	£11.25
ITS 300	3" x 1m	£31.20

## Ball Float Valve Bracket



Fitted to the rim of a steel tank to support a ball float valve.

Ref	Size	Price
BFB 002	¾"	£18.00
BFB 003	1"	£18.00

## Dual Float Switches

Suitable for tank filling and emptying.



Ref	Size	Price
DFS 001	Dual 5m Cable	£54.70

## Steel Tank Take Off Units



Ref	Size	Price
STT 200	2"	£77.50
STT 300	3"	£108.00
STT 400	4"	£215.00

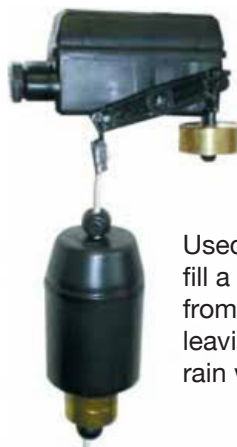
## Ball Float Valve With Plastic Float



Brass float valve with adjustable plastic ball.

Ref	Size	Price
BVF 002	¾" MBSP	£24.00
BVF 003	1" MBSP	£37.50

## Partially-Filling Float Switch



Used to partially fill a water tank from the mains, leaving space for rain water.

Ref	Description	Price
PFF 002	Switch	£59.50
PFF 001	Tank Bracket	£30.00

## Pump Suction Hose



Green medium duty suction hose with a reinforced PVC helix spiral. Suitable for the suction and discharge of fluids, waste water, effluent etc. Especially useful for connecting your water supply to your pump. Brass couplings on page 93.

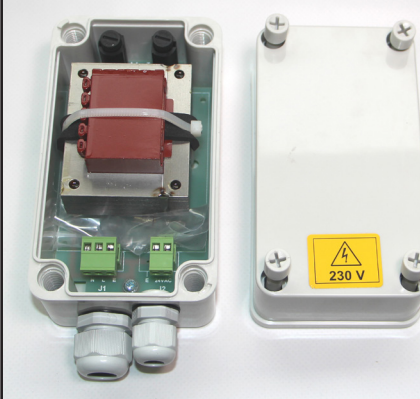
Ref	Size (ID)	Price Per Metre
PSH 100	1"	£4.90
PSH 125	1 ¼"	£5.50
PSH 150	1 ½"	£7.28
PSH 200	2"	£10.35

## Brass Gate Valves



Ref	Size	Price
BGV 200	2"	£31.90
BGV 300	3"	£79.20
BGV 400	4"	£128.00

## 230v-24vAC Transformer



Used in conjunction with a partially-filling float switch to operate 24vAC solenoid valves.

Ref	Voltage	Price
TRA 024	230-24vAC	£70.00



## Polyethylene Tanks



Manufactured from UV stabilized polyethylene.

- Tough and durable.
- Ribbed design provides added strength.
- Does not rust or corrode, impact resistant and long lasting (10 year warranty).
- One piece construction ensures long term structural strength
- (some manufacturers make their tanks in two halves and join them together).
- Carefully programmed manufacturing process ensures max wall thickness at the base, where it's needed the most.
- Comes with a 2" Female BSP outlet as standard – larger outlets available on request.

Ref	Tank Capacity		Tank Size		Outlet	Price Ex. delivery
	Litres	Gallons	Diameter	Height		
PTV 005	500	110	0.7m	1.44m	1½"	£137.00*
PTV 007	720	158	0.7m	2.15m	1½"	£162.00*
PTV 012	1,250	275	1.2m	1.2m	1½"	£227.00*
PTV 025	2,500	550	1.4m	1.8m	1½"	£316.00*
PTV 040	4,000	881	1.9m	1.85m	2"	£543.00*
PTV 050	5,000	1,100	1.9m	2.15m	2"	£666.00*
PTV 060	6,000	1,321	1.9m	2.28m	2"	£755.00*
PTV 065	6,500	1,431	2.6m	1.5m	2"	£785.00*
PTV 070	7,000	1,541	2.4m	1.82m	2"	£855.00*
PTV 085	8,500	1,872	2.6m	2.06m	2"	£988.00*
PTV 100	10,000	2,202	2.4m	2.5m	2"	£1,106.00*
PTV 125	12,500	2,753	2.6m	2.6m	2"	£1,330.00*
PTV 168	16,800	3,700	2.6m	3.41m	2"	£1,900.00*
PTV 208	20,800	4,580	2.6m	4.15m	2"	£2,300.00*
PTV 250	25,000	5,506	2.7m	4.65m	2"	£2,995.00*

**\*Delivery will be charged at cost (please phone for a quote)**

Please Note: All prices exclude VAT



# Lagoon Liners



## Rubber Lagoon Liners



### Sold per m2

Manufactured from 0.75mm or 1.00mm thick industrial grade rubber (EPDM).

Durable, flexible and rot-proof.  
20 year guarantee against UV degradation.

Fish safe and no negative effect on the environment.

**Colour:** Black

Max, single sheet size for 0.75mm thickness  
1,800m2 - Max sheet width: 40m.

Max, single sheet size for 1.00mm thickness  
1,400m2 - Max sheet width: 40m.

Unlimited sizes available, but on-site joining may be required (call for details).

**Guide Prices: Please call for quote.**

	Price/m2			
Thickness	100-249m2	250-499m2	500-999m2	1000m2+
0.75mm	£5.30	£5.04	£4.78	£4.54
1.00mm	£6.60	£6.277	£5.96	£5.66

## Heavy Duty Lagoon Liner Underlay



### 250g/m2 sold per m2

Used as a protective barrier between substrate and liner to help protect from penetration by sharp stones, roots etc.

Reduces excessive localised stretching of the liner when ground settlement occurs over time.

Superior non-woven, mechanically bonded, puncture resistant, polypropylene geotextile.

Good flexibility to follow the contour on uneven ground.

Supplied as 2mtr wide rolls which are rolled out with small overlap.

**Guide Prices: Please call for quote.**

	Price/m2			
Weight	100-249m2	250-499m2	500-999m2	1000m2+
250g/m2	£1.71	£1.63	£1.55	£1.47



Sunclear Anti-Condensation



Sunclear liquid solution applied to the inside of polythene alters the behaviour of the plastic surface. Droplets are unable to form and the fogging effect is eliminated. Water condenses on the plastic to form a very thin coating which, instead of remaining in position, runs down the curved sheeting to the outside edges of the greenhouse. Sunclear can be applied to any of the flexible or rigid plastics used in greenhouse constructions. Whilst Sunclear was developed specifically for UVI polythene, PVC and polyester sheeting also respond well to treatment.

Up-to 25% more light transmitted.

Non-toxic and easily applied by spraying or painting (usually applied with a knapsack sprayer).

Dripping which can promote fungal diseases such as Botrytis is eliminated.

**Dilute:** 1:100 (200ml Sunclear in 20ltr water to treat 180m<sup>2</sup>)

**Quantity:** 946ml covers up to 900m<sup>2</sup> (9500ft<sup>2</sup>) or a 21ft x 100ft polytunnel.

Ref	Description	Price
ACC 100	Sunclear 946ml	£33.30

Polytunnel and Glasshouse Liquid Shade (Q3)



Q3 white liquid shade is applied with a sprayer, either motorised or knapsack. The amount of shade it provides depends on the strength you dilute it with water. Even though it will wear off over a period of time (which also depends on the strength), you can apply a 'remover' (Removit) which neutralises the bonding agent. It can then be rinsed off or left until the next rainfall. Also ideal for glasshouses.

This is exactly the same as Redusol, and is mixed and applied in the same way and at the same rate.

Light diffusing and heavy shade coatings also available.

**Coverage:** for 60% shade apply 1ltr with 5ltr water to cover 40m<sup>2</sup> (600m<sup>2</sup> from one 15ltr bucket).

Ref	Description	Price
PGL 001	Q3 White 15ltr (20kg)	£59.00
PGL 002	Removit 20ltr	£108.00



Polytex Pro - Polytunnel Cleaner



The green residue which maybe covering your polytunnel greatly reduces light transmission through your cover. This often originates from the leaves of nearby trees. Soapy water should NOT be used as this adversely reacts with the oil-based polymers which your polytunnel cover is made of.

As the UK's leading manufacturer of polytunnels we only recommend Polytex Pro, as this has been developed for safe and effective cleaning of polythene, plastics and uPVC (also ideal for conservatories and window frames). It gently yet effectively removes green slime, pesticides, soot, traffic film, grease, and chemical residues etc.

**Rates:**

Dilute at 1:10 with water for manual, machine or power hose applications. For best results rub with a soft broom or cloth etc. shortly after application.

**Coverage:**

1ltr bottle will cover approx. 110m<sup>2</sup> (14ft x 45ft polytunnel).  
5ltr bottle will cover approx. 550m<sup>2</sup> (two 21ft x 80ft polytunnels).



Ref	Description	Price
PTP 100	Polytex Pro 1ltr	£10.85
PTP 500	Polytex Pro 5ltr	£41.65



### Verritex Pro - Glasshouse Cleaner

Verritex can be used in confined spaces as it does not give off fumes or odours during use, which makes it an ideal cleaner for the professional horticulturalist. Verritex achieves maximum 'sparkle' and ensures optimum light transmission, essential for healthy and efficient plant growth. Unlike acids it does not etch or damage the glass surface instead it efficiently removes all forms of soiling quickly and effectively. An alternative to using corrosive and aggressive chemicals such as hydrofluoric acid. With a pH of 9.8 Verritex it will not damage sensitive surfaces such as aluminium or magnesium alloys.

**Rates:** To create an active solution dilute with water at 1:20 for mechanical application or 1:10 for manual application.

**Coverage:** 8-12m<sup>2</sup> per litre of diluted product.



Ref	Description	Price
VTP 100	Verritex Pro 1ltr	£10.85
VTP 500	Verritex Pro 5ltr	£41.65

### Hortisept Pro - Horticultural Disinfectant

Hortisept is a specifically formulated synergistic blend that is bactericidal, fungicidal and virucidal but user and environmentally sensitive. Hortisept does not contain alcohol, acid, aldehydes, chlorine, phenols or halogens, making it a safer alternative to aggressive or corrosive chemicals. Hortisept disinfects continuously, preventatively and repeatedly. Effectively controls a wide variety of pathogens on hard surfaces.

Formulated with unique germicidal agents to provide control of disease spreading organisms on all water safe horticultural surfaces. It contains a unique blend of compounds that create an enhanced antimicrobial spectrum. Hortisept therefore prevents microbes from growing and spreading in a way that is not harmful to the environment and will not affect plants or shrubs if accidental contamination occurs. For best results clean and remove all organic matter using Verritex or Polytex before disinfecting with Hortisept.

#### Applications include:

Hard surfaces/exteriors | Work areas and benches, pots, trays, matting, and flower buckets | Disinfection of cutting tools | Glasshouses and Polytunnels

#### Advantages of Hortisept include:

Broad spectrum disinfectant | Environmentally friendly | Pleasant odour | No re-entry restrictions for hard surface use | Cost effective use rates | Good wetting agent | Leaves bacteria resistant residue | Biodegradable

**Rates:** For glasshouse and polytunnel surfaces dilute 25ml in 5ltr water  
To disinfect cutting tools use up to 100ml in 5ltr water.



Ref	Description	Price
HSP 100	Hortisept Pro 1ltr	£10.85
HSP 500	Hortisept Pro 5ltr	£41.65

### Algiclear Pro - Cleaner

The active polymers in Algiclear affect the sustaining process of the algal cells. By creating a surface inhibiting the regeneration of the parasitic organisms – therefore preventing re-growth. Long term control of algae, moss, liverwort and lichens on any hard surface including: Walkways, pots, benches, roofs, fences, decking, terraces, tennis courts, walls, monuments and fountains.

**Application:** Apply and walk away - no brushing, scrubbing or rinsing.

**Rates:** To create an active solution dilute with water 1:20.

**Coverage:** 8-12m<sup>2</sup> per litre of diluted product.

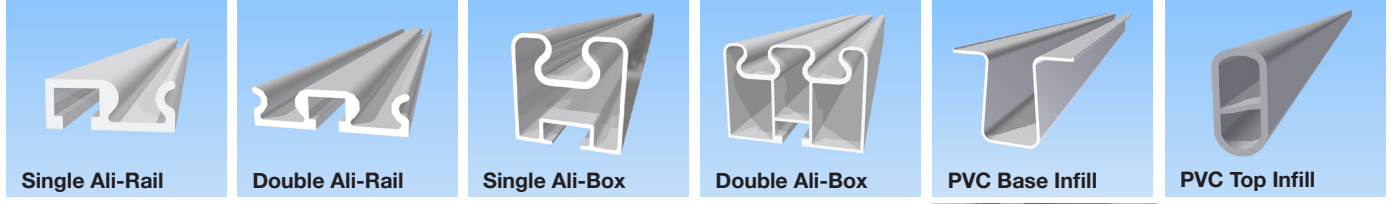


Ref	Description	Price
ACP 100	Algiclear Pro 1ltr	£10.85
ACP 500	Algiclear Pro 5ltr	£41.65



# Aluminium Rails And Posts

## Ali-Trap Polythene Fixing System



Available as a narrow rail (Ali-Rail) or as a beefed-up box section (Ali-Box). Both types come with either a single trapping channel or a double trapping channel. Extruded from aluminium with a 'T' slot at the rear. The Ali-rail 'T' slot takes the hexagonal head of a M8 bolt, whilst the Ali-box takes M10. The plastic grip strips (in-fills) are universal, therefore compatible with the whole Ali-trap range.

### Ali-Trap - Uses:

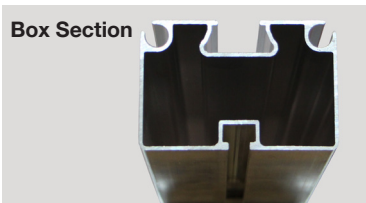
Single Ali-trap is mainly used for fixing polythene in to the gutters on a commercial polytunnel. Double Ali-rail is usually fixed over the top of the first and last hoop on a commercial polytunnel, allowing for a simpler, pleat free installation of the cover giving the structure a professional finish. Fittings are available to suit 50mm and 60mm OD hoops and are spaced every metre.

### Ali-Box - Uses:

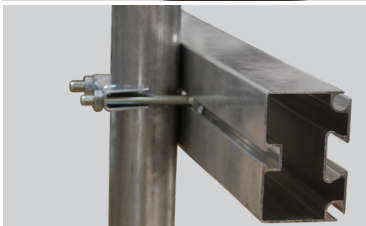
Single Ali-box is mostly used to make our aluminium doors, as a lightweight base rail or end frame. The main use for double Ali-box is for side rails, base rails and end frames on our commercial polytunnels.

Ref	Description	Price
ASE 592	Single Ali-Rail 5.9m Long	£61.66
ASJ 2	Single Ali-Rail Joiner	£4.34
ADE 592	Double Ali-Rail 5.9m Long	£87.38
ADJ 2	Double Ali-Rail Joiner	£4.91
ASE 591	Single Ali-Box 5.9m Long	£95.49
ASJ 1	Single Ali-Box Joiner	£6.48
ADE 591	Double Ali-Box 5.9m Long	£179.13
AJR 901	Double Ali-Box Joiner 90°	£4.53
ADJ 1	Double Ali-Box Joiner	£7.24
ITP 3	PVC Top Infill for Alibox and Alitrap 3m	£3.66
IBE 3	PVC Base Infill for Alibox and Alitrap 3m	£3.21

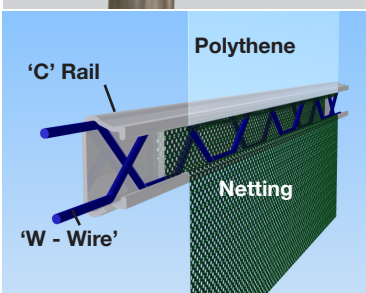
## 'W-Wire' (Wiggle Wire) Polythene Fixing System



'W-Wire' has proven to be a lower-cost, effective way to secure polythene, netting and other materials to polytunnels etc. Multiple layers of polythene or shade fabrics can be fastened in to a single 'C' channel (up to three), each secured with a separate run of 'W-Wire'. The aluminium fixing rail is available as a simple lightweight rail incorporating a 'C' channel, or as a beefy aluminium box section, also incorporating a 'C' channel. The same 'W-Wire' is used for both.



The lightweight 'C' rail is generally used to secure the polythene inside polytunnel gutters or can be screwed on to timber. Its pliable aluminium nature enables it to be attached over the curve of the polytunnel hoops allowing the polythene to be secured to the ends of your polytunnel. 50mm and 60mm hoop fittings can be supplied and would normally be positioned every metre.



The heavy duty aluminium box section is used for polytunnel side rails, base rails and end frames. Box joiners/inserts are used to connect individual lengths together to form a long straight run. The 'T' slot in the back of the box section takes an M8 hexagon bolt head allowing it to be fastened to polytunnel hoops using two M8 bolts with an exhaust clamp pressing. Corner brackets are also available (phone for details).

Our 'W-Wire' is 2.3mm diameter (not the standard 2mm), and is both galvanised and plastic coated for longer life, making it 2.9mm diameter with the plastic coating. Each length is 2m long, extending to 2.2m when clipped in to the 'C' channel.



Ref	Description	Price
WWE 232 10	'W-Wire' Pack of 10	£15.65
WWE 232 100	'W-Wire' Pack of 100	£125.00
WWE 232 500	'W-Wire' Pack of 500	£500.00
WWA 6	Aluminium 'W-Wire' 'C' Rail - 6mtr Long	£21.15
WWB 060	Aluminium 'W-Wire' Box Section - 6mtr Long	£121.71
WWJ 1	Box Section Joiner / Insert	£7.68

Please Note: All prices exclude VAT



# Timber

## Timber For Base Rails, Side Rails, Lintels, Door Casings and Upright Posts



All our timber comes from sustainable sources, and is pressure treated with a market leading preservative (HP-Wolmanit® CX-10). This preservative is based on copper and organic biocides and does not use chromium or arsenic, so is a low-hazard preservative that is safe to handle with a low environmental impact. It protects against all forms of insect attack, wood destroying fungi and other biological decay hazards, according to EN 351-1 and meets hazard class 4 (HC4) which is for outside, in-ground use.

**Timber 75mm x 75mm (3" x 3"):** Used for upright posts, door casings and lintels on commercial structures.

**Timber 100mm x 50mm (4" x 2"):** Used for side rails and base rails on all commercial polytunnels.

Ref	Application	Size	Price
TTR 711	Upright Posts, Door Casings and Lintels	75mm x 75mm x 2.75mtr (3" x 3" x 9ft)	£12.02
TTR 712	Upright Posts, Door Casings and Lintels	75mm x 75mm x 3.35mtr (3" x 3" x 11ft)	£14.41
TTR 713	Upright Posts, Door Casings and Lintels	75mm x 75mm x 4.8mtr (3" x 3" x 16ft)	£19.22
TTP 13	Side Rails and Base Rails	100mm x 50mm x 4.8mtr (4" x 2" x 16ft)	£16.45

## Timber Battens, Nails and Bolts



### Timber Battens 50mm x 12mm:

Used to secure your polythene on to timber side rails, base rails and doors frames. The 3mtr long battens are most commonly used on the side/base rails, whereas the 1mtr long battens are easier to use on shorter runs, such as around the door frames and on timber doors.

**Don't forget to order nails, 1 nail for every 30cm of batten (10/batten).**

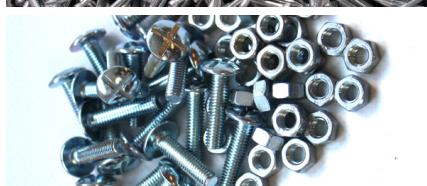
Ref	Description	Price
TTB 51	Timber Batten 50mm x 12mm x 1mtr	£0.72
TTB 53	Timber Batten 50mm x 12mm x 3mtr	£2.17
NGR 003	Galvanised Nails 50mm For Battens - Pack of 100	£1.37



### Timber Battens 50mm x 25mm:

Used for fixing polythene in to the gutters. The thicker batten spaces the polythene away from the gutter lip thus preventing the polythene from rubbing on the edge of the gutter.

**Don't forget to order nuts and bolts, 1 for every 60cm of batten (6/batten).**



Ref	Description	Price
TTB 57	Timber Batten 50mm x 25mm x 3.6mtr	£3.30
RBT 607	Roof Bolt For Gutter Battens - Pack of 100	£12.29
HNF 600	Hexagon Nut (Flanged) For Gutter Battens - Pack of 100	£3.57



## Tapes

### Anti-Hotspot Tape



Padded foam tape which is placed over each polytunnel hoop prior to the polythene sheet being fitted.

It acts as insulation between the metal and the polythene to prevent the build-up of heat in the steel frame being transferred to the polythene.

Extends the life of a polythene sheet by at least one year.

**20mm Tape:** Used on hoops up-to 32mm diam.

**30mm Tape:** Used on hoops 50mm and 60mm diam.

**60mm Tape:** Used for all end hoops 50mm and 60mm diam.

Ref	Tape Width	Roll Length	Box Qty	Price / Roll	Price / Roll (Full Box)
AHS 209	20mm	9mtr	30	£2.64	£1.99
AHS 309	30mm	9mtr	20	£3.96	£2.99
AHS 609	60mm	9mtr	10	£7.92	£5.99

### Polythene Joining Repair Tape

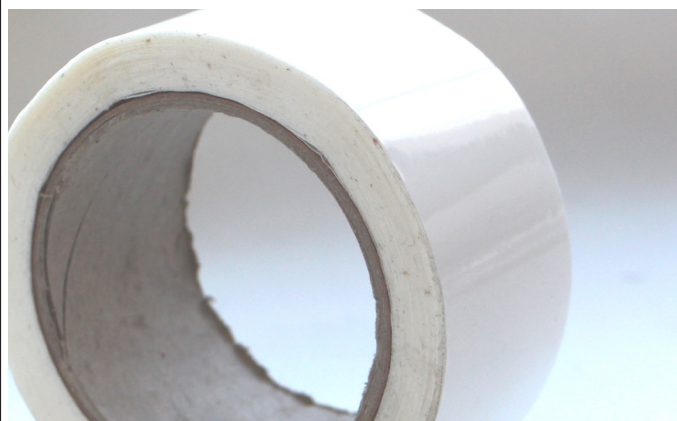
**Colour:** Transparent  
**Roll Length:** 25m



Highly adhesive and UV stabilized makes it resistant to weathering and the harmful effects from sunlight. This highly transparent, clear tape gives maximum light transmission. Often used for making temporary repairs to glasshouse panes.

Ref	Roll Width	Roll length	Price
PRT 50	50mm (2")	25mtr	£4.86
PRT 75	75mm (3")	25mtr	£7.28
PRT 400	100mm (4")	25mtr	£9.72
PRT 600	150mm (6")	25mtr	£14.56

### Anti-Hotspot Repair Tape



Anti-hot spot tapes have a shiny polyester top layer which forms a low-friction barrier between the foam and your polytunnel cover.

This polyester layer can break down over time, which significantly reduces the overall effectiveness of the tape. Rather than replace old anti-hot spot tape which is still in good condition (and still in place) you can simply replace the outer layer by applying Anti-Hot Spot Repair Tape over your old anti-hot spot tape.

Make sure any of the loose polyester layer is removed first. Only use the repair tape on anti-hot spot tape which is in good condition (apart from having a damaged polyester layer).

Ref	Tape Width	Roll Length	Price
AHS 505	50mm (2")	50mtr	£5.91

### Gutter Tape / Mastic



**Colour:** Black  
**Roll Width:** 70mm (2¾")  
**Roll Length:** 5m (16'5")

3mm thick gutter joining tape. Used to seal gutter joints.

Produced from class A butyl mastic.



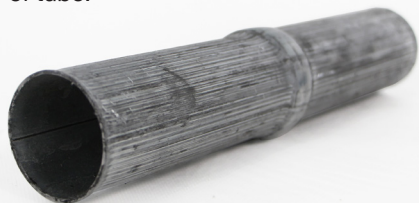
Ref	Tape Width	Roll Length	Price
GMC 505	70mm (2¾")	5mtr	£18.00



# Parts and Fittings

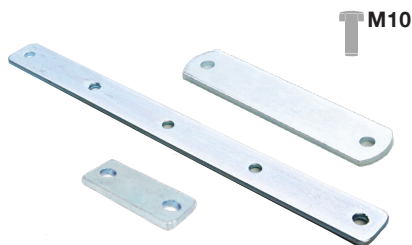
## Double Swaged Joint

Used to connect two plain lengths of tube.



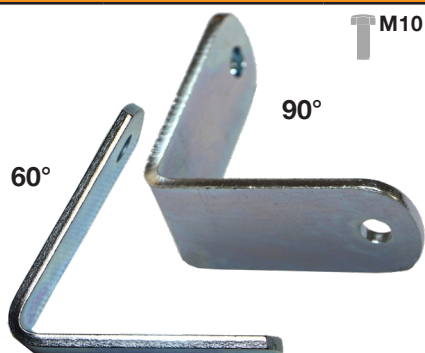
Ref	Size	Price
DSJ 32	32mm x 32mm	£3.75
DSJ 50	50mm x 50mm	£4.25
DSJ 60	60mm x 60mm	£4.50

## Long / Short Plate



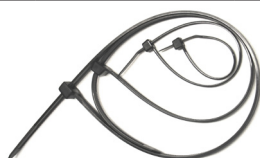
Ref	Size	Price
SPL 70	70mm	£1.11
SPL 150	180mm	£1.93
LPL 430	430mm	£8.03

## Mounting Bracket



Ref	Angle	Price
MBT 60	60°	£3.63
MBT 90	90°	£3.63

## Cable Ties (100 per pack)



Ref	Size	Price
CTS 120	4.7mm x 120mm	£1.40
CTS 200	4.8mm x 200mm	£4.92
CTS 370	7.5mm x 370mm	£17.88
CTS 430	9mm x 430mm	£24.75

## Hoop Extension



Used to increase the height of a polytunnel, or where there is a significant fall or undulations. Can be cut to length accordingly.

Ref	Size	Price
GFT 102	32mm x 1m	£6.39
GFT 100	50mm x 1m	£9.69
GFT 101	60mm x 1m	£10.03

## Galvanised Nails (Pack of 100)



Sold in packs of 100.

Ref	Size	Price
NGR 001	30mm	£0.40
NGR 002	40mm	£0.88
NGR 003	50mm	£1.37
NGR 004	65mm	£2.79
NGR 005	100mm	£5.81
NGR 006	150mm	£18.06

## Swan-Neck Bungees



Ref	Size	Price
BBT 150	19cm X 8mm	£1.45

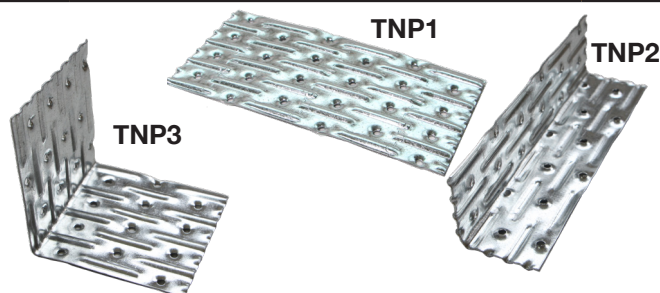
## Omega Spring Clips



Used to fasten polythene sheeting to steel tubes. Can be quickly removed, and re-attached.

Ref	Clip Diam.	Fits Tube Up to	Price / Each		
			1-99	100-499	500+
SCS 35	30mm	35mm	£0.50	£0.35	£0.20
SCS 40	35mm	40mm	£0.55	£0.39	£0.22
SCS 50	45mm	50mm	£1.25	£0.88	£0.50
SCS 60	55mm	63mm	£2.72	£2.04	£1.70

## Timber Nail Plate



Ref	Size	Price
TNP 1	Timber Nail Plate Flat	£1.70
TNP 2	Timber Nail Plate Long 90°	£2.05
TNP 3	Timber Nail Plate Short 90°	£2.05



## Parts and Fittings

### Polypropylene Rope



3-strand twisted polypropylene rope  
Good resistance to acid, alkali and abrasion.  
Suitable for use in environments up to 80°C.

**Estimated Breaking Strain:** 550kg

**Colour:** Blue

**Diameter:** 6mm

- Hard wearing
- Rot proof
- Low cost

Ref	Description	Price
PPR 622	6mm x 220mtr	£16.95

### Galvanised Straining Wire

Widely used to support irrigation spray lines.



Ref	Size	Price
GWE 251	25mm x 675mtr	£69.00

### Brush Strips

2.4mtr long with 100mm bristles.

Aluminium fixing rail with bristles set at 180°.

Suitable for use as draft excluders for doorways.



Ref	Description	Price
BSP 241	2.4mtr Brush Strip	£24.65

### 'S' Hooks

Galvanised steel 'S' hook with blunt ends. Ideal for attaching hanging baskets to crop bars.

Suitable for hanging on steel tube up to 60mm in diameter.



Ref	Description	Price
SHK 50	S Hooks (Pack of 100)	£23.20

### Monofilament

Solid plastic straining wire - will not stretch. UV stabilised with an estimated lifespan of 30 years. Not effected by rust, corrosion or pesticides.

**Tensile strength:**

230kg (506lbs)

**Colour:** Black

Widely used with screen systems. Can be tensioned using wire strainers.



Ref	Size	Price
BMF 190	2.2mm x 1900m	£95.00

### Wire Strainer



Galvanised Steel

Ref	Size	Price
WTB 003	No. 3	£1.79

### Swan-Neck Bungees



Ref	Size	Price
BBT 150	19cm X 8mm	£1.45

### Adjustable Bungee



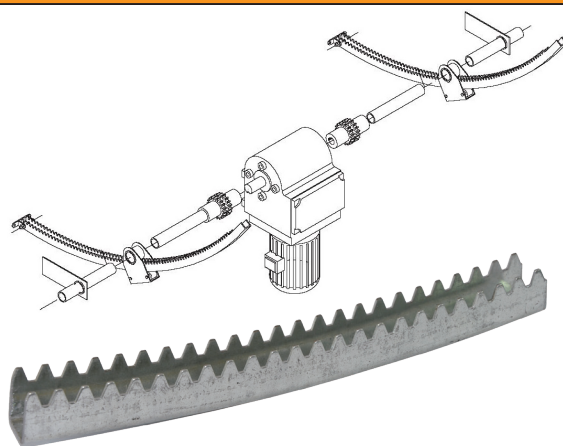
Ref	Size	Price
BBT 153	50cm x 8mm	£1.43



# Rack and Pinion Parts



## Curved Rack (Inwards)



Rack and pinion ventilation system. Can be supplied as a complete system, either for a new polytunnel or as an upgrade to an existing structure (phone for details).

Also available: torque tubes, bearing grease, 24vDC motors, manual gear boxes, mounting brackets etc.

### Curved Rack (Inwards).

Made from 3mm galvanised pressed steel.  
22mm high x 1050mm length.

Ref	Description	Price
RCK 02	Curved Rack 22mm x 1050mm (each)	£5.90

## Bearing Bracket (Plate)



Zinc plated, with a self-lubricating bronze bearing to support a 1" (33.7mm) OD drive shaft (torque tube). Various additional extensions and brackets available.

Ref	Description	Price
BBK 01	Straight Bearing Bracket with 1" Bronze Insert	£2.95
BPT 01	Angled Bearing Bracket with 1" bronze insert	£4.99

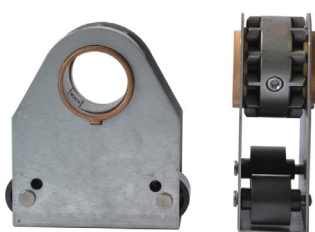
## Sash Brackets (Window Connector)



To connect the rack on to the louvre/window. Supplied complete with stainless steel pivot bolt and split pin.

Ref	Description	Price
SBS 01	Sash Bracket c/w Stainless Pin and 'R' Clip	£1.45

## Pinion

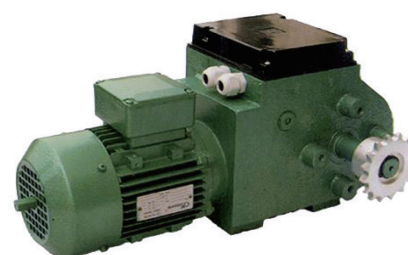
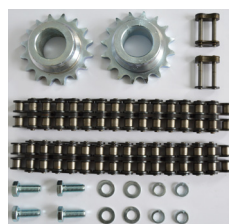


Suitable for use with 32mm O.D steel tube.

Galvanised steel housing with a self-lubricating bronze bearing for a 1" (33.7mm OD) drive shaft (torque tube).

Ref	Description	Price
PIN 02	1" Galvanised Pinion c/w Bronze Bearing (each)	£8.90

## Electric Motor Gearboxes (Three Phase)



Heavy duty motors with a variety of applications. Supplied with two output shafts and chain couplings.

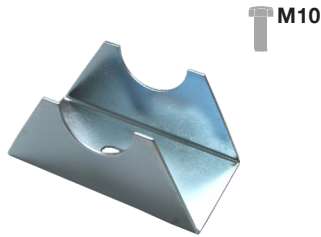
Ref	Description	Price
WGM 01	Gear Motor 380v 0.55kW 400Nm 2.6rpm	£590.00



# Parts and Fittings

## POLYTUNNEL FITTINGS

### Base Rail Spacer



M10

Ref	Fits Tube Size	Price
BRS 42	42mm	£2.87
BRS 48	48mm	£3.41

### Retro Rail Mounting Bracket (Side)



M10

Ref	Fits Tube Size	Price
SCP 25	25-32mm	£4.42
SCP 45	45mm	£4.37
SCP 50	50mm	£4.49
SCP 60	60mm	£5.20

### Brace Bar Bracket (Inside Bolt)



M10

Ref	Size	Price
BBB 45	45mm	£3.81
BBB 503	50mm	£4.34

### Door Frame Bracket



M10

Ref	Fits Tube Size	Price
DFB 32	32mm	£6.32
DFB 45	45mm	£5.92
DFB 50	50mm	£5.86
DFB 60	60mm	£6.36

### Brace Bar Bracket (Keyhole)



M10

Ref	Fits Tube Size	Price
BBB 322	32mm	£0.87
BBB 502	50mm	£1.53
BBB 602	60mm	£1.86

### Pipe Collar



Ref	Fits Tube Size	Price
PCR 28	27 - 28mm	£1.86
PCR 45	43 - 45mm	£1.71
PCR 50	49 - 50mm	£1.97

### Rail Mounting Bracket (Side)



M10

Ref	Fits Tube Size	Price
RMB 453	45mm	£6.63
RMB 503	50mm	£7.78
RMB 603	60mm	£8.29

### Rail Mounting Bracket (Corner)



M10

Ref	Fits Tube Size	Price
RMB 454	45mm	£7.80
RMB 504	50mm	£9.76
RMB 604	60mm	£11.53

### Brace Bar Bracket (Side Bolt)



M10

Ref	Fits Tube Size	Price
BBB 321	32mm	£3.23
BBB 501	50mm	£4.22
BBB 601	60mm	£5.04

### Hoop To Ridge Bracket



Ref	Fits Tube Size	Price
HTR 32	32mm / 32mm	£3.31
HTR 50	50mm / 50mm	£4.81
HTR 60	60mm / 50mm	£5.27

### Hoop To Ridge Bracket with Tab



M10

Ref	Fits Tube Size	Price
HTR 501	50mm / 50mm	£8.23
HTR 601	60mm / 50mm	£8.50

### Hoop To Ridge Bracket Retrospective Fit



Ref	Fits Tube Size	Price
HTR 503	50mm / 50mm	£10.07
HTR 602	60mm / 50mm	£9.70



### Commercial Tensioning Plate



To be used in conjunction with a 'U' bolt and pipe collar (sold separately)

Ref	Fits Tube Size	Price
TPE 654	50mm (See ECC50)	£0.99
TPE 654	60mm (See ECC60)	£0.99

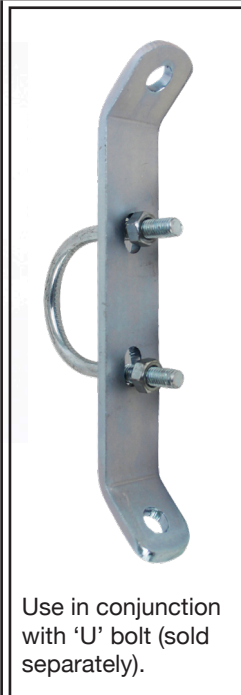
### 'U' Bolt / Exhaust Clamp



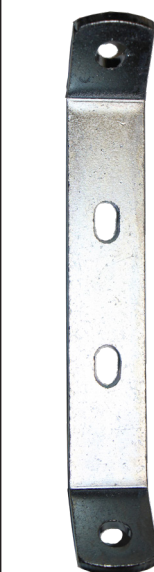
Supplied with collar (as above).

Ref	Fits Tube Size	Price
ECC 32	32mm	£0.87
ECC 45	45mm	£1.16
ECC 50	50mm	£0.99
ECC 60	60mm	£1.24

### Retrospective Rail Mounting Bracket (Corner)



M10



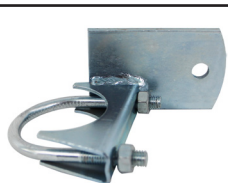
Use in conjunction with 'U' bolt (sold separately).

Ref	Size	Price
RMB 506	42mm / 50mm	£5.91
RMB 602	60mm	£6.22

### Double Ali-Trap Over Hoop Bracket



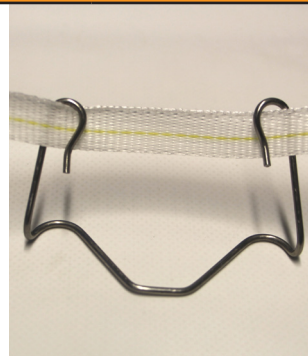
M8



Use in conjunction with 'U' bolt (sold separately).

Ref	Fits Tube Size	Price
DAO 50	50mm (See ECC50)	£3.75
DAO 60	60mm (See ECC60)	£3.92

### Spring Hooks For 'C' Channel



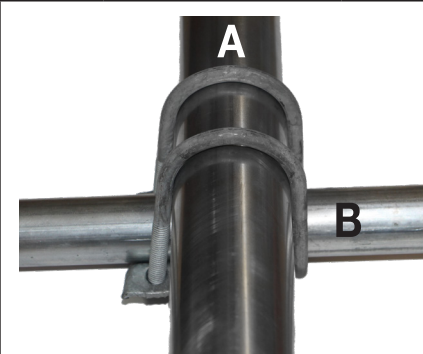
Ref	Size	Price
SHK 01	Pack of 10	£2.48

### Gutter Post To Hoop Bracket



Ref	Fits Tube Size	Price
GPT 501	50mm / 50mm / 50mm	£9.23
GPT 601	60mm / 50mm / 60mm	£8.99
GPT 502	50mm / 50mm	£6.06
GPT 602	60mm / 50mm	£5.48

### Cross-Over Clamps



Ref	Fits Hoop / Ridge	Price
HTR 321	(A) 32mm x (B) 32mm	£5.62
HTR 504	(A) 50mm x (B) 32mm	£5.16
HTR 603	(A) 60mm x (B) 32mm	£5.54
HTR 604	(A) 60mm x (B) 50mm	£7.03

### Cross-Over Spring Clip



Very secure.  
Easily attached.  
Fully galvanised.

Ref	To fit pipe size	Amount	Price
GSC 32	30-35mm	100	£48.80
		1000	£239.00



Door Handle Aluminium



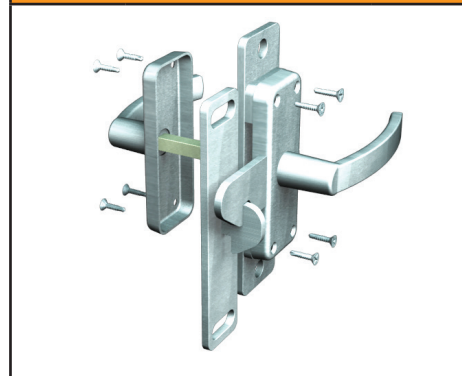
Ref	Description	Price
DHA 1	Ali Door Handle	£3.63

Metal Pulley with Screw Eye



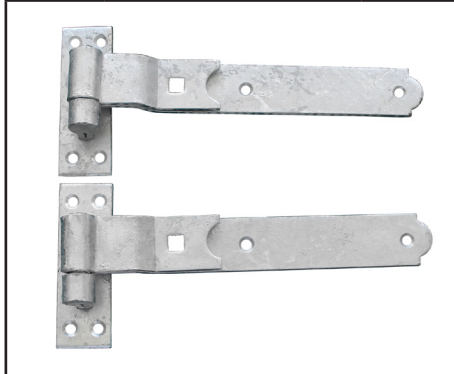
Ref	Description	Price
WUC 2	Pulley With Screw Eye	£5.48

Door Latch Kit



Ref	Description	Price
DLK 1	Aluminium Latch Kit	£35.77

Strap and Pin Hinge (Pair)



Ref	Description	Price
SAP 1	One Pair (Two Hinges)	£17.33

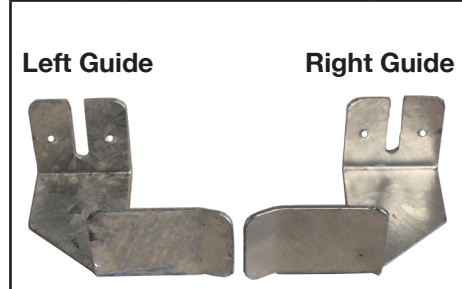
Door Joiners



For use with single ali-box profile.

Ref	Description	Price
DCJ 1	Corner Joiner	£2.98
DTJ 1	Tee Joiner	£2.98

Door Bottom Guides



Ref	Description	Price
DGR 1	Right Hand Guide	£7.66
DGL 1	Left Hand Guide	£7.66

Door Roller Carriage Pack



Ref	Description	Price
DRC 3	Door Roller Pack	£9.52

Each pack contains a pair of rollers - enough for a single door.

Aluminium Sliding Door Track



Ref	Description	Price
SDT 18	1.8m Long	£37.69
SDT 275	2.75m Long	£56.78
SDT 36	3.6m Long	£73.86
SDT 55	5.5m Long	£112.03
DFT 1	Door Track Connector	£16.51

Complete Door Kits

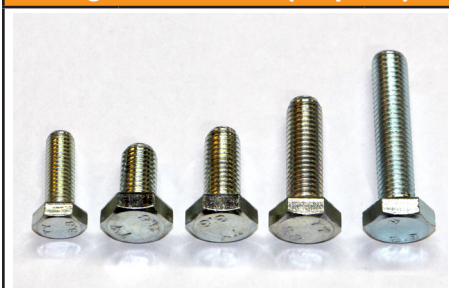


Our aluminium single and double sliding door kits are supplied in kit form for self assembly, and include door track, rollers, door guides, drop bolts, handles, polythene cladding etc. Easily fitted to your existing structure.

Size	Price
Single Aluminium Door Kit - 1.5m wide x 2.16m high (5ft x 7ft)	£182.44
Double Aluminium Door Kit - 3.0m wide x 2.16m high (10ft x 7ft)	£371.04

Please Note: All prices exclude VAT



**Hexagon Setscrew (25 pack)**

Ref	Size	Price
HSS 803	M8 x 25mm	£2.54
HSS 101	M10 x 20mm	£3.53
HSS 102	M10 x 25mm	£4.70
HSS 104	M10 x 35mm	£4.35
HSS 107	M10 x 50mm	£5.26

**Galvanised Nails (Pack of 100)**

Ref	Size	Price
NGR 001	30mm	£0.40
NGR 002	40mm	£0.88
NGR 003	50mm	£1.37
NGR 004	65mm	£2.79

**Button Head Screw (25 pack)**

Ref	Size	Price
BHS 802	M8 x 20mm	£2.68
BHS 803	M8 x 25mm	£2.84

**Coach Bolt (25 pack)**

Ref	Size	Price
CBT 803	M8 x 40mm	£2.62
CBT 105	M10 x 50mm	£6.26

**Galv Staples (25 pack)**

Ref	Size	Price
SGD 301	30mm x 3.5mm	£0.62

**Roof Bolt (25 pack)**

Ref	Size	Price
RBT 109	M10 x 60mm	£17.84
RBT 113	M10 x 80mm	£18.56
RBT 117	M10 x 100mm	£19.39
RBT 119	M10 x 120mm	£21.24
RBT 121	M10 x 140mm	£27.70

**Tee Bolt (25 pack)**

Ref	Size	Price
TBT 820	M8 x 20mm	£4.79
TBT 100	M10 x 25mm	£8.97

**Socket Head Cap Screw**

5.5mm socket head for 5.5mm Allen key. Also works well as a drill bit for inserting 5.5mm headed self-drill screws (below).

Ref	Size	Price
SHC102	M10 x 25mm	£0.27

**Self Drill Screw (25 pack)**

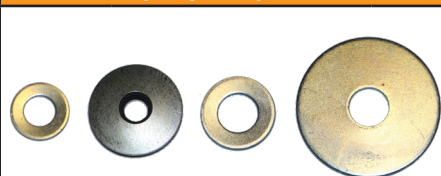
Ref	Size	Price
SDS 551	5.5mm x 25mm	£2.06
SDS 552	5.5mm x 38mm	£3.82
SDS 554	5.5mm x 50mm	£4.00
SDS641	6.3mm x 150mm	£16.40

**Pozi Woodscrew (25 pack)**

Ref	Size	Price
PCW 803	8G x 1.5in	£0.76
PCW 102	10G x 1.25in	£0.83
PCW 104	10G x 2in	£1.65

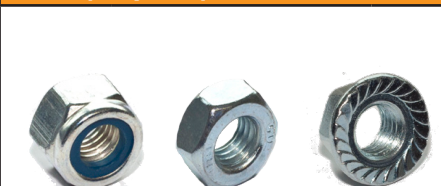
**Sleeve Anchor (25 pack)**

Ref	Size	Price
SAR 802	M8 x 50mm	£13.57
SAR 807	M8 x 80mm	£15.62
SAR 106	M10 x 80mm	£21.27
SAR 107	M10 x 100mm	£39.90

**Washers (25 pack)**

In order of listing

Ref	Size	Price
WZP 801	M8 Form A	£0.30
WZP 807	M8 Rubber Backed	£1.20
WZP 101	M10 Form A	£0.62
WZP 105	M10 x 38mm Mudguard	£1.75

**Nuts (25 pack)**

Nylock      Plain      Serrated

Ref	Description / Size	Price
HNN 800	Nylock M8	£1.26
HNN 100	Nylock M10	£2.78
HNN 120	Nylock M12	£3.35
HNP 800	Plain M8	£0.74
HNP 100	Plain M10	£1.10
HNF 800	Serrated Flange M8	£1.80
HNF 100	Serrated Flange M10	£1.65

**Anti-Luce Fastener (each)**

Ref	Size	Price Each
ALF 121	M12 x 26mm	£2.62



## Cross Bracing Bars (Crop Bars)

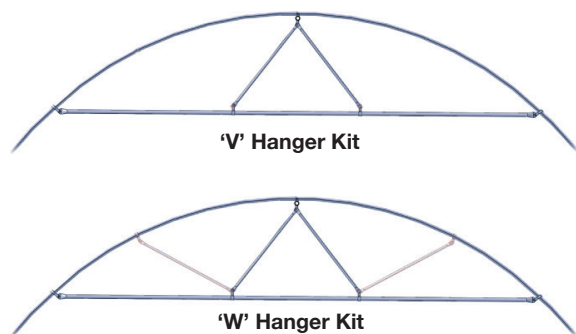
50mm tubular steel bracing bars (crop bars), supported from the ridge tube by 32mm tubular steel hangers. Cross bracing bars, not only add strength to the structure but are also used for suspending irrigation spray lines, tying up crops such as tomatoes and vines, and for suspending hanging baskets.

### 'V' Hangers:

Sufficient throughout most of the UK.

### 'W' Hangers:

Used in more extreme locations on wider tunnels.



Polytunnel Type	Hanger Type	Price
18ft Single Span	'V' Hanger Kit	£47.60
21ft Single Span	'V' Hanger Kit	£52.06
24ft Single Span	'V' Hanger Kit	£60.54
27ft Single Span	'V' Hanger Kit	£63.55
30ft Single Span	'V' Hanger Kit	£71.59
21ft Multi-Span	'V' Hanger Kit	£60.61
26ft Multi-Span	'V' Hanger Kit	£69.90
All Sizes	'W' Hanger Kit	POA

## Hoops

A Northern Poly tunnel hoop is made in two halves, making it much stronger than some of our competitors hoops that are supplied in 3,4 and even 5 pieces, creating weak links that need extra 'bracing'. A Northern Poly tunnels hoop does **NOT** need extra bracing.

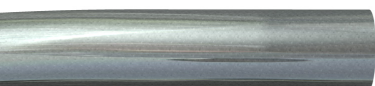
### 14ft Hoops

32mm diameter tube with 1.5mm wall thickness with 0.95m straight sides.



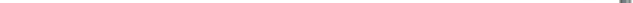
### 18ft - 21ft Hoops

50.8mm diameter tube with 1.5mm wall thickness with 1.1m straight sides.



### 24ft - 30ft Hoops

60.3mm diameter tube with 1.5mm wall thickness with 1.2m straight sides.



Ref	Polytunnel Width	Diam.	Plain / Swaged	Price
HHS 143	14ft Single Span	32mm	Half Hoop - Swaged	£20.20
HHP 143	14ft Single Span	32mm	Half Hoop - Plain	£18.82
HHS 185	18ft Single Span	50mm	Half Hoop - Swaged	£37.28
HHP 185	18ft Single Span	50mm	Half Hoop - Plain	£35.90
HHS 215	21ft Single Span	50mm	Half Hoop - Swaged	£40.62
HHP 215	21ft Single Span	50mm	Half Hoop - Plain	£39.24
HHS 246	24ft Single Span	60mm	Half Hoop - Swaged	£50.35
HHP 246	24ft Single Span	60mm	Half Hoop - Plain	£48.98
HHS 276	27ft Single Span	60mm	Half Hoop - Swaged	£53.41
HHP 276	27ft Single Span	60mm	Half Hoop - Plain	£52.03
HHS 306	30ft Single Span	60mm	Half Hoop - Swaged	£61.63
HHP 306	30ft Single Span	60mm	Half Hoop - Plain	£60.24
HHP 212	21ft Multi-Span	50mm	Half Hoop - Swaged	£39.46
HHP 211	21ft Multi-Span	50mm	Half Hoop - Plain	£38.09
HHS 266	26ft Multi-Span	60mm	Half Hoop - Swaged	£51.43
HHP 266	26ft Multi-Span	60mm	Half Hoop - Plain	£50.05

**Note:** Non-standard hoops can be bent on request, however a template will be required and a setup charge will apply. Call 01282 873120 for details.

## Ridge Tube

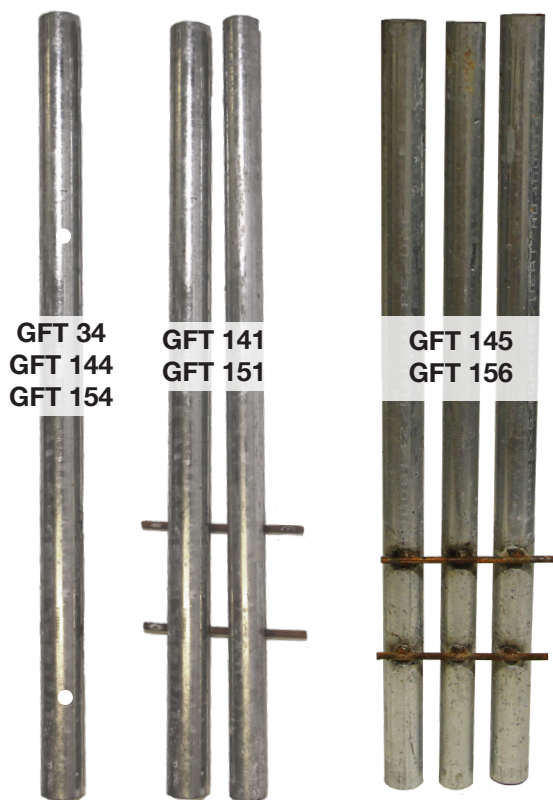


Universal steel tube, available with plain ends or swaged at one end. 1.5mm wall thickness. Galvanised inside and out for longer life.

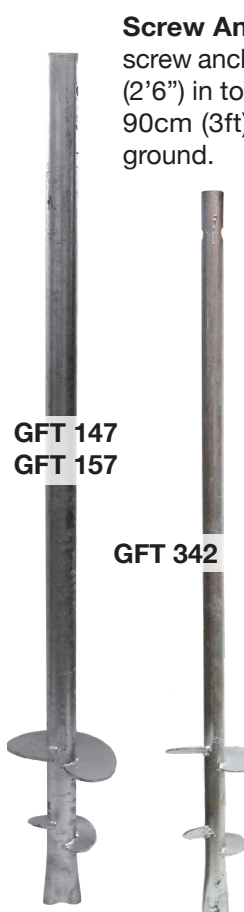
Ref	Description	Price
EPG 311	32mm x 3.733mtr Steel Tube (Plain)	£15.39
EPG 314	32mm x 3.875mtr Steel Tube (Swaged)	£16.45
RPP 32	Plastic Ridge Tube Cap For 32mm Tube	£0.26
EPG 510	50mm x 5.8mtr Steel Tube (Plain)	£37.66
RTS 580	50mm x 5.9mtr Steel Tube (Swaged)	£40.03
RPP 50	Plastic Ridge Tube Cap For 50mm Tube	£0.64



# Ground Tubes



**Traditional Ground Tubes** are 1m (3'4") long and inserted 45cm in to the ground / concrete.



**Screw Anchor Ground Tubes** - 43mm and 49mm OD screw anchors are 120cm (4ft) long and are screwed 75cm (2'6") in to the ground. The 27mm OD screw anchors are 90cm (3ft) long and screw 45-60cm (1'6" - 2') into the ground.



Ground Tubes with Base Plates should be bolted down using sleeve anchors.

All ground tubes are ArmourGuard galvanised treated with a 2.5mm wall thickness.

## Traditional Ground Tubes

Ref	To Fit	Description	Fixing Method	Price - Each
GFT 341	32mm Hoop	27mm OD Single Ground Tube	Concrete	£6.18
GFT 144	50mm Hoop	43mm OD Single Ground Tube	Concrete	£8.82
GFT 154	60mm Hoop	49mm OD Single Ground Tube	Concrete	£11.09
GCB 820	-	Concreting Bar (required for single ground tubes)	Concrete	£0.32
GFT 141	50mm Hoop / 50mm Gutter Post	43mm x 43mm OD Double Ground Tube	Concrete	£21.48
GFT 151	60mm Hoop / 50mm Gutter Post	49mm x 43mm OD Double Ground Tube	Concrete	£23.75
GFT 145	50mm Hoop / 50mm Gutter Post	43mm x 43mm x 43mm OD Triple Ground Tube	Concrete	£29.73
GFT 156	60mm Hoop / 50mm Gutter Post	49mm x 43mm x 49mm OD Triple Ground Tube	Concrete	£34.26

## Ground Tubes with Base Plate

Ref	To Fit	Description	Fixing Method	Price - Each
GFP 34	32mm Hoop	27mm OD Single Ground Tube on Plate	Bolts	£10.51
GFP 142	50mm Hoop	43mm OD Single Ground Tube on Plate	Bolts	£29.47
GFP 152	60mm Hoop	49mm OD Single Ground Tube on Plate	Bolts	£31.31
GFP 141	50mm Hoop / 50mm Gutter Post	43mm x 43mm OD Double Ground Tube on Plate	Bolts	£40.42
GFP 151	60mm Hoop / 50mm Gutter Post	49mm x 43mm OD Double Ground Tube on Plate	Bolts	£51.48
GFP 143	50mm Hoop / 50mm Gutter Post	43mm x 43mm x 43mm OD Triple Ground Tube on Plate	Bolts	£52.24
GFP 153	60mm Hoop / 50mm Gutter Post	49mm x 43mm 49mm OD Triple Ground Tube on Plate	Bolts	£68.81

## Screw Anchors

Ref	To Fit	Description	Fixing Method	Price - Each
GFT 342	32mm Hoop	27mm OD Screw Anchor Ground Tube	Screw-In	£13.08
GFT 147	50mm Hoop	43mm OD Screw Anchor Ground Tube	Screw-In	£19.93
GFT 157	60mm Hoop	49mm OD Screw Anchor Ground Tube	Screw-In	£22.28



## Side Vent Parts and Fittings

### Side Vent Gearbox, Handle and Roller Carriage



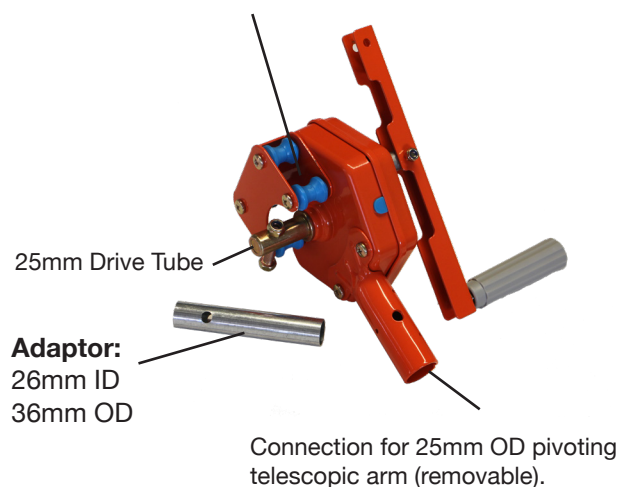
8.5:1 for curtains up to 1.5m high.  
13:1 for curtains 1.5m high or above.  
Complete with roller carriage for use with aluminium guide rail  
(page 124).

Ref	Size	Price
SVG 851	Gearbox c/w Roller Carriage 8.5:1	£111.02
SVG 131	Gearbox c/w Roller Carriage 13:1	£110.76
SVG 12	Gearbox Handle 1.2m	£33.98
SVG 16	Gearbox Handle 1.6m	£37.23

### Side Vent Manual Gearbox



Fits a 25mm vertical guide tube.



Ref	Description	Price
MWD 001	Manual Gearbox	£49.00

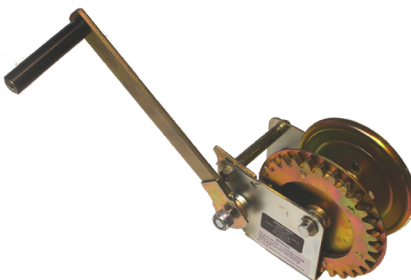
Wind Up Curtain Tube



Fits inside the sleeve of our side vent film **on page 47**. Swaged at one end (slots together).

Ref	Size	Price
CTD 510	19mm x 5.1mtr	£8.63

Wind-Up Curtain Winch



Ref	Description	Price
WIN 001	Winch	£55.69

Wind-Up Curtain Cable & Wire Rope Grip



Cable sold per metre

Ref	Description	Price
CWC 4	Cable 4mm	£1.16
WRG 400	Grip 5mm	£0.17

Aluminium Drive Tubes



Used for roll-down ventilation screens.



Ref	Size	Price
ADT 291	Drive Tube 2.95m	£51.52
ADT 590	Drive Tube 5.9m	£100.29
ADT 2	Drive Tube Joiner	£3.12

Nylon Pulleys



White nylon pulley used for wind-up side ventilation systems. M10 x 100mm roof bolts are normally used for the axle. Used with M8 X 140 roof bolt.

Ref	Description	Price
NCP 01	Nylon Pulley	£1.03
RBT 822	M8 X 140 Roof Bolt	£0.49

Wind Up Curtain Cord



Non-stretch poly cord for wind-up side curtains. Also used to support overhead spraylines to hoops.

Ref	Size	Price
PCD 04	4mm x 150m	£29.00

Polytunnel Ventilation Pulley Gearbox



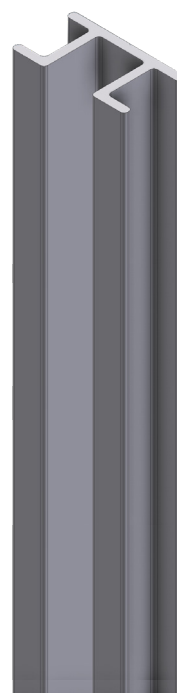
Requires 25mm OD Guide Tube

Hand-operated geared pulley/winch with integrated roller-guide carriage. The 'endless chain' design makes it ideal for operating vents which are too high to operate with a crank handle gearbox. A 6m galvanised chain provides a 2.8-3.0m loop, making it suitable for screens up to 4m high.

**Torque:** 40Nm  
**Speed Ratio:** 5:1

Ref	Description	Price
MWD 002	Pulley Gearbox	£79.00
EPG 207	25mm OD X 4.68m Vertical Guide Tube	£10.95

Aluminium Guide Rail



Used with our roller carriages. **Page 123.**

Ref	Size	Price
AGR 1	1m Long	£16.58
AGR 15	1.5m Long	£23.41
AGR 2	2m Long	£34.88
AGR 3	3m Long	£47.73

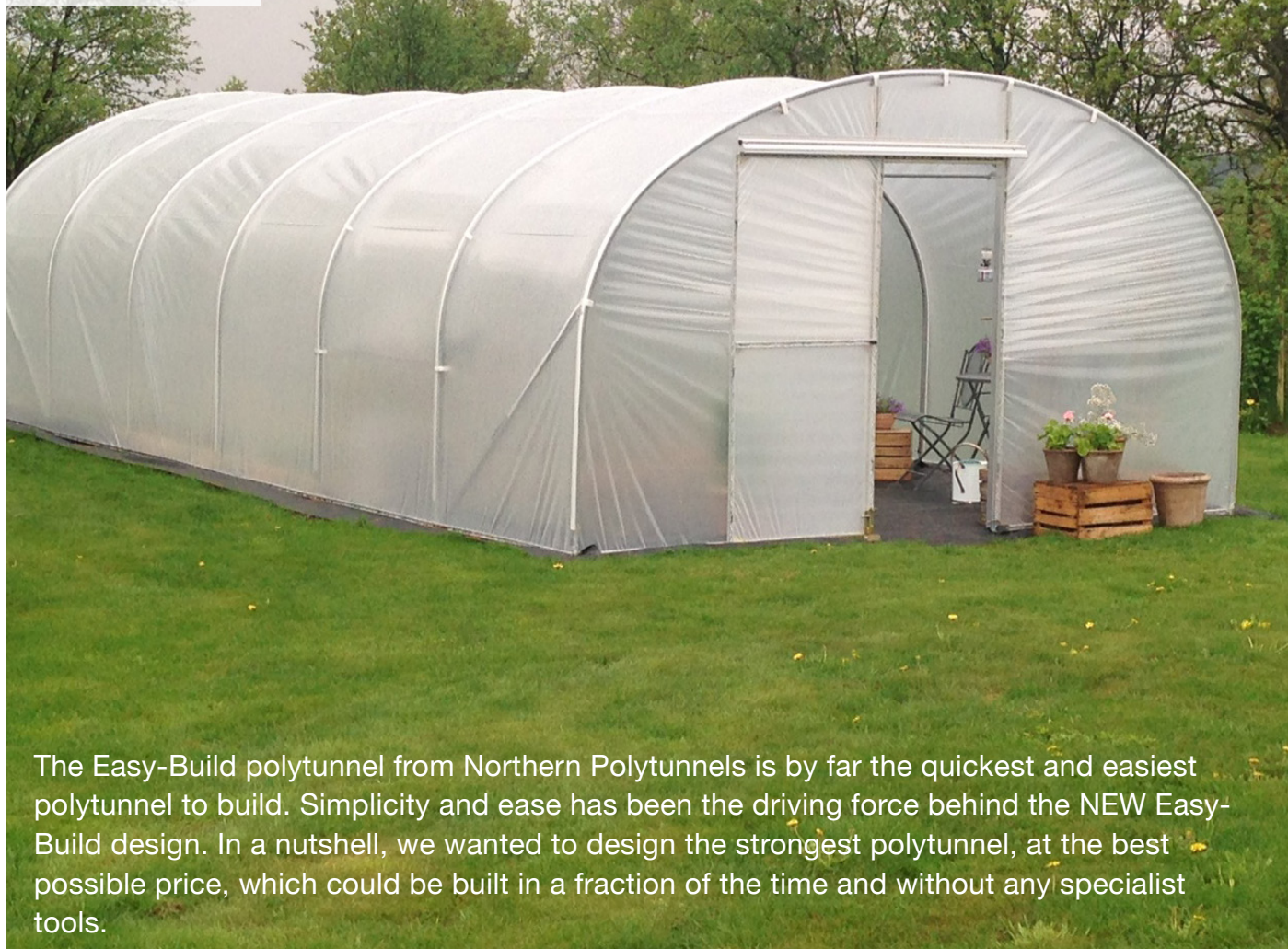


<b>A</b>		Crop Bars	125	Glasshouse Cleaner	114
Agam Dehumidifiers	73-74	Crop Support	26	Green Polythene	38
Air Circulation Fans	60	Curtain Motors	61-63	Ground Cover Fabric	54
Algae Cleaner	114	Curtain Tube	128	Ground Pegs	54
Algiclear Pro	114	<b>D</b>		Ground Staples	54
Ali-Box End Frames	115	Danish Trolley Tracking	47	Ground Tubes	126
Ali-Box Side Rails	115	Dehumidifiers	73-74	Gutter Mastic	117
Ali-Trap System	115	Diffused Polythene	35	Gutter Tape	117
Aluminium End Frames	17, 115	Disinfectant	114	Gutters	28
Aluminium Side Rails	18, 115	Display Benches	45-46	<b>H</b>	
Amber Light Mistfers	79	Door Guides	123	Heat Controller	59
Anti-Condensation Coating	113	Door Handles	123	Heating Panels	66
Anti-Hot Spot Repair Tape	117	Door Joiners	123	Heaters	67-72
Anti-Hot Spot Tape	117	Door Lintels	116	Hinges (Door)	123
Anti-Luce Fasteners	124	Door Posts	116	Hoops	125
<b>B</b>		Door Rollers	123	Hortisept Pro	114
Ball Float Valves	110	Door Tracking	123	Hose	100, 110
Barbed Fittings	85	Doors	123	Hose Reels	99
Base Plates	126	Dosatron	104	Hose Tracking Kit	84
Base Rails	18, 115-116	Double Skinning	32, 60	Hose Trolleys	99
Battens	116	Drip Irrigation	75-78	Hotbpx Heatwave	66
Battery Operated Water Timers	98	Drip Lines	75	<b>I</b>	
Bayco Monofilament	119	Dripper Assemblies	76-77	Inflation Fan	60
Benching	45-46	Drippers	74-76	Insect Netting	52
Bird Netting	52	<b>E</b>		Insulated Polytunnels	32
Blue Rope	119	Eco Climate Converter	73-74	Insulation Polythene	56
Bolts	124	Electric Control Panels	59, 61-64, 80, 101	Iron Fittings	86
Bracing Bars	125	Electric Motors	61-63, 120	Irrigation	75, 112
Brass Hose Couplers	97	End Frames	17, 116	Irrigation Controllers	80, 101-102
Brass Tap	98	Energy Screens	58	<b>L</b>	
Brush Strip	119	Exhaust Clamps	122	Lagoon Liners	112
Bubble Film	56	Exhaust Fans	64	Lances	110
Bungees	119	<b>F</b>		Lantor Capillary Mat	79
Butterfly Netting	52	Fan Controller	59-64	LDPE Pipe & Fittings	85
<b>C</b>		Fans	60, 64	Liquid Shade	113
Cable	128	Feed Injectors	104	Louvres	20
Cable Grips	128	Filters	103	Low Voltage Cable	101
Cable Ties	118	Float Switch	110	Lumisol	34-35
Capillary Matting	79	Floor Film	55	<b>M</b>	
Chain Pulley	128	Fogger	79	MDPE Pipe & Fittings	95-96
Clear Joining Tape	117	Foundation Tubes	126	Meters, Water	92
Clear Polythene	34	Fruit Cages	43-44	Mid Rails	18, 116
Click Fit Hose Connectors	93	<b>G</b>		Mini Tunnels	57, 131
Cloche Film	55	Galvanised Threaded Fittings	86	Mist & Wean Unit	80
Cloche Hoops	57	Garden Centre Structures	11-12	Mist Nozzles	79
Coach Bolts	124	Garden Polytunnels	131	Misting	79-80
Commercial Polytunnels	5-32	Gate Valves	98	Monofilament	119
Control Panels	59, 61-64, 80, 101	Gear Boxes	127-128	Multi-Span Polytunnels	13-16
Covered Retail Area	11-12	Geka Type Fittings	97	Mypex	54

<b>N</b>		Retail Canopies	11-12	Timber	116
Nail Plates	118	Ridge Tube	125	Timber Battens	116
Nails	118	Roll-Down Curtains	21-24, 49 127	Traditional Canopies	11-12
Netting	39, 50-53	Rolling Benches	46	Twin Skin Fan	60
Non-Return Valves	98	Roof Bolts	124	Twin Skinning	32
Nuts	124	Rope	119	<b>V</b>	
<b>O</b>		Roses (watering)	100	Valve Boxes	92
Omega Clips	118	Rubber Walkway	48	Valves	92, 98
Overhead Irrigation Kits	82	<b>S</b>		Ventilation	21-25
Overhead Sprinklers	81	'S' Hooks	119	Ventilation Controller	59, 61-64
<b>P</b>		Saddle Clamps	95	Ventilation Motors	61-63, 120
<i>Paraweb</i>	53	Sand Filters	103	Ventilation Screens	21-24, 49
Pathways (Rubber)	48	Screws	124	<i>Verritex Pro</i>	114
<i>Phormisol</i>	54	Shade Covers	39, 58	<i>Visqueen</i> Polythene	34-38, 55
Pin Nozzles	91	Shade Hall	42	<b>W</b>	
Pipe	85, 87, 93, 95	Shade House	41	Washers	124
Pipe Clamps	91, 95	Shade Screens	58	Water Filters	103
Plastic Support Hooks	94	Shade Tunnel	41	Water Pumps	92
Poly Water Tanks	111	Side Rails	18, 116	Water Tanks	105
Polycord	128	Side Vent Film	49	Water Timers	107
Polytex Pro	113	Side Vent Gearboxes	127-128	Weed Control Fabric	52
Polythene Film	33-38, 49, 55-56	Side Vent Guide Rail	128	White Polythene	55
Polythene Joining Tape	117	Side Ventilation Net	50	<i>Wiggle Wire</i>	115
Polythene Repair Tape	117	Side Vents	23-24	Winch	128
Polytunnel Cleaner	113	Single Span Polytunnels	7-10	Wind Break Mesh	53
Polytunnel Covers	33-39	Sled Base Sprinkler Stands	83	Wind Up Curtains	21-24, 49, 127
Polytunnel Fittings	115-128	Sleeve Anchors	124	Wire Cable	128
Polytunnel Parts	115-128	Sliding Door Track	123	Wire Strainers	119
Polytunnel Roof Fan	64	Sliding Doors	19, 123	Wire Support Hooks	91, 119
Polytunnels	5-32	Solenoid Valves	92	W-Wire	115
Pond Liners	112	<i>Spinnet</i> Nozzles	81		
Porous Pipe	75	Spray Guns	100		
Potting Bench	45	Spring Clips	118, 122		
Pressure Valves	92	Sprinkler Stands	83		
Pressure Vessels	106	Sprinklers	79-83		
Propagation Film	55	Standpipes	83		
Proportional Feed Injectors	104	Staples	54		
Pumps	105	Steel Water Tanks	107-109		
PVC Covers	40	Straining Wire	119		
PVC Paving	48	Sulphur Vapourisers	65		
PVC Pipe & Fittings	87-90, 93-94	<i>Sun Clear</i>	113		
<b>Q</b>		Support Hooks	91, 119		
Q3 <i>White</i> (Shade Paint)	113	<b>T</b>			
Quick Hose Couplers	97	Tank Covers	109		
<b>R</b>		Tank Liners	108		
Rack & Pinion	120	Tape	117		
Rainwater Pipe & Fittings	93-94	Taps	98		
Reinforced Polythene	56	Tee Bolts	124		
Retail Benches	45-46	Thermal Screens	58		
		Threaded Iron Fittings	86		



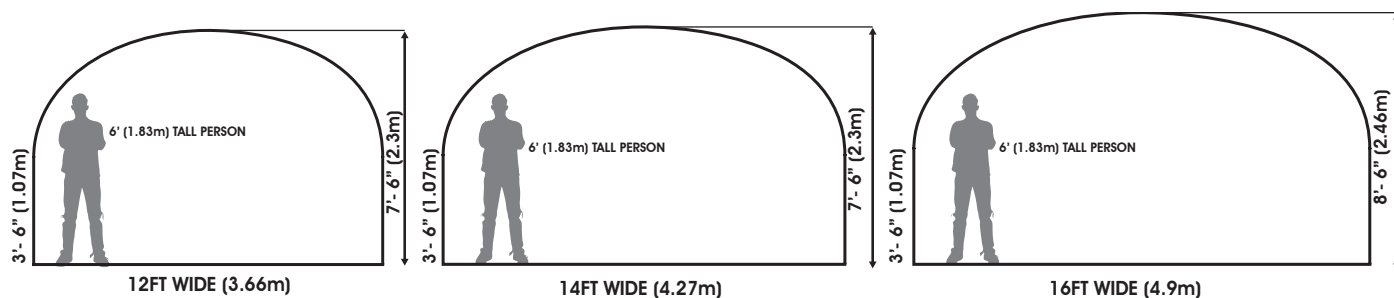
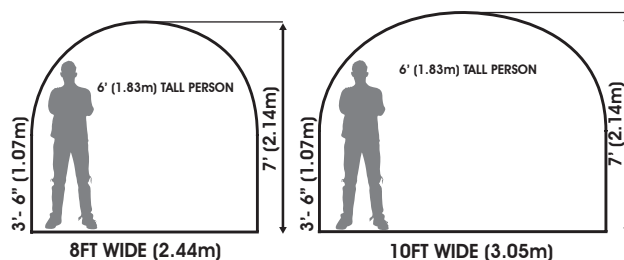
# NEW Easy-Build Domestic Polytunnel



The Easy-Build polytunnel from Northern Polytunnels is by far the quickest and easiest polytunnel to build. Simplicity and ease has been the driving force behind the NEW Easy-Build design. In a nutshell, we wanted to design the strongest polytunnel, at the best possible price, which could be built in a fraction of the time and without any specialist tools.

## The Standard Package:

- Screw anchor foundation tubes
- 1 x aluminium sliding door (front)
- 1 x PVC ventilation panel (rear)
- SuperLux 50:50 polythene cover
- Aluminium base rails
- Aluminium end frames



Many other options available, all of which can be configured on our website to provide you with an instant price [www.northernpolytunnels.co.uk/hobby-range.html](http://www.northernpolytunnels.co.uk/hobby-range.html). Alternatively, request a copy of our 'Hobby Gardening' brochure.

## Placing Your Order

### PHONE: 01282 873120

Our telephone lines are operational from 8.30am to 5.00pm Mon-Fri (excluding English bank holidays).

### EMAIL: [sales@npstructures.co.uk](mailto:sales@npstructures.co.uk)

For sales, and customer service enquiries.

### ONLINE: [www.northernpolytunnels.co.uk](http://www.northernpolytunnels.co.uk)

### QUOTATIONS / SITE VISITS:

For most new polytunnel quotations and existing polytunnel refurbishments, where you require our contractors to undertake the construction or repair work, we can usually provide a quotation without the need for a site visit by using photographs. These can be emailed to [sales@npstructures.co.uk](mailto:sales@npstructures.co.uk).

Our technical sales team travel the whole of the UK and Southern Ireland (and further afield when the opportunity arises). We endeavour to respond to all site visit requests in the soonest time-frame possible, however, when travelling to the furthest reaches of the UK we try to tie-up several visits within a journey. Therefore please allow us as much notice as possible.

## Placing Your Order

All our prices are valid at the time of producing this brochure. We always endeavour to honour our published prices throughout the year but from time to time we are hit with unforeseeable increases from our suppliers that we simply can't withstand.

Therefore we reserve the right to alter our prices in-line with supplier increases without prior notice. For up to date prices visit [www.northernpolytunnels.co.uk](http://www.northernpolytunnels.co.uk)

**VAT** All prices in this brochure and on our trade website exclude VAT.

## Payment

### Bank Transfer:

Online and electronic payments (BACS etc.) are gratefully accepted. Please use your unique customer reference no. or the quotation number as your payment reference.

### Card:

In the interests of security, we only take card payments over the phone or via our website. We accept the following cards.



### Cheque:

All cheques should be made payable to NP Structures Ltd. and posted to our main office address along with your contact details and/or quotation number.

### Paypal



### Account:

Customers wishing to open a trade account can request an application form by calling 01282 873120, or by downloading one from our website. If in agreement with our terms & conditions, return your completed form to: Accounts Department at our main office address. Alternatively, scan and email [accounts@npstructures.co.uk](mailto:accounts@npstructures.co.uk) - Subject to acceptance our terms are 30 days from date of invoice.

## Carriage

### For orders under £125.00 (+ VAT):

A cost of £8.33 (+ VAT) will be charged to deliver orders to most of mainland UK.

If the order is under 2kg then a reduced £5 (+ VAT) postal charge will apply instead.

A cost of £27.00 (+ VAT) will be charged for deliveries to the Scottish Highlands.

Our standard next day service also applies to Scotland, although due to the remoteness of certain geographical locations this could take longer, especially where the final delivery is sub-contracted to a third party carrier (dependent on postcode).

Offshore shipping – For Scottish Islands (incl. Skye), N. Ireland, Southern Ireland, Channel Islands, Isle of Man etc., please call our sales office for a price.

### All orders over £125.00 (+ VAT):

Delivered FREE of charge to most mainland UK addresses on a next day delivery service (see additional notes below).

A surcharge of £18.75 (+ VAT) will be charged for deliveries to the Scottish Highlands.

Large, bulky orders will be delivered by our wagons, so please allow 1-4 weeks (depending on timing of ordering).



### Important Note:

It is advisable to check your deliveries before signing for them, especially high value or fragile items. You are within your rights to detain the delivery driver for a 'reasonable' amount of time in order to make an inspection. Any items that are received damaged without being signed for as such will result in no claim being accepted by the freight company.

### Export:

Northern Poly tunnels (NP Structures Ltd.) export worldwide. We welcome any overseas business where payment is made via a direct bank transfer.

If delivering to a UK address for you to make your own shipping arrangements then VAT will be charged and later refunded upon receipt of a valid overseas shipping document.