

ENL



- NOTES
1. CONTRACTORS MUST VERIFY ALL DIMENSIONS AND LEVELS BEFORE COMMENCING ANY WORK.
  2. OBTAIN THE ARCHITECTS WRITTEN APPROVAL BEFORE COMMENCING ANY WORK INVOLVING SHOP DRAWINGS AND VARIATIONS.
  3. DRAWINGS MUST NOT BE SCALED. LARGE SCALED DRAWINGS SHALL TAKE PREFERENCE TO SMALL SCALED.

| Revision | Change ID | Description         | Date     |
|----------|-----------|---------------------|----------|
| A        | -         | PLANNING SUBMISSION | 12.04.21 |
| B        | -         | SETBACKS NOTED      | 14.04.21 |
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PROJECT: HILLWOOD BERRIES  
 ADDRESS: 139 HILLWOOD ROAD  
 CLIENT: HILLWOOD BERRIES  
 DRAWING: PROPOSED TUNNEL LAYOUT - TITLE AND SETBACKS  
 SCALE: 1:5000 (A2 paper)  
 DATE: 26.06.20  
 DWG#: DA - 01 - B

NOT FOR CONSTRUCTION

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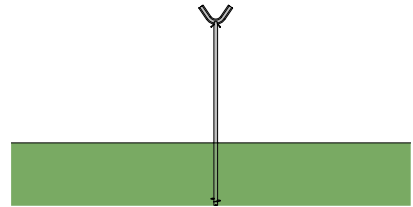
# TUNNEL STRUCTURE

## HSO 80 HOOP STEEL

Haygrove HSO 80 steel is the premium steel choice for growers seeking high strength and excellent value for money. It uses E320 structural grade steel and Z275 zinc coating, and is made to manufacturing standard EN10305-3:2016.

## PIONEER LEG

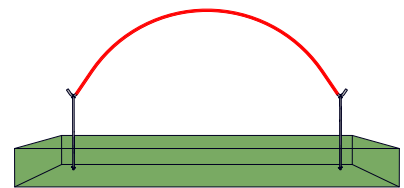
Leg length: 2.75m, Leg height: 1.9m, Drill depth: 0.85m, Flight: 150mm  
The Pioneer HSO 80 leg has a 71mm x 31mm HSO Y-Piece with a 50mm x 2mm E320 structural grade steel shaft. HSO steel is used in both the hoop and uniquely, also in the leg top, creating a secure connection between the HSO hoop and HSO leg top. Patent Applied 1606567.



## PIONEER ROUND

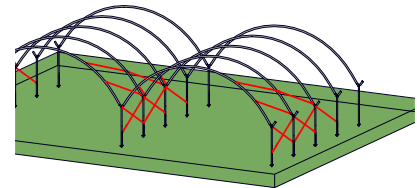
Hoop length: 10.50m

Pioneer Round hoop steel is delivered in straight lengths and bent into a round hoop profile on site.



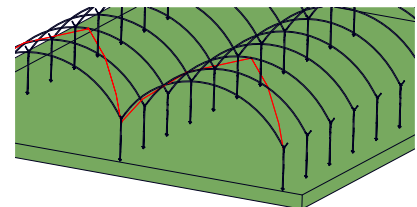
## WINDY END KITS

This kit consists of a configuration of 40mm struts and hinge clamps, designed to strengthen the ends of the tunnels.



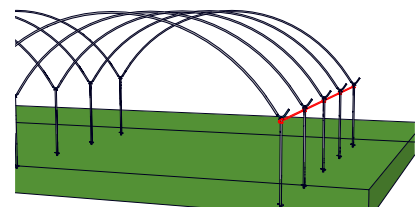
## V BRACING AT TUNNEL ENDS - WIRE

This kit consists of wire stabilising the structure at the ends of the tunnels.



## STEEL SIDE BRACING - PERIMETER ROWS ONLY

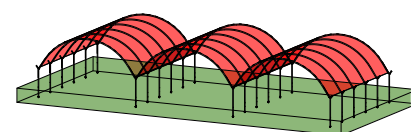
This kit consists of 30mm tube running along the length of the tunnel on the perimeter legs. It is designed to connect the perimeter legs in an upright position, which in turn keeps the perimeter hoops in an upright position, and therefore helps maintain the integrity of the structure at its most vulnerable point.



## POLYTHENE

Visqueen Luminance Extra High UV 150mu - 10.70m wide

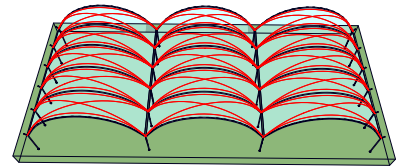
This polythene has high diffusion (>90%) characteristics combined with >80% thermicity and >87% light transmission properties. It has extra high UV protection and is guaranteed for 3 seasons against UV degradation in areas with 131-160kLy.



# TUNNEL STRUCTURE

## DOUBLE ROPING

This rope is diagonally crossed over continuously in both directions between each hoop, designed to secure polythene in place. This rope is UV protected with a 770kg breaking strain.



## MULTIBAY FIXINGS

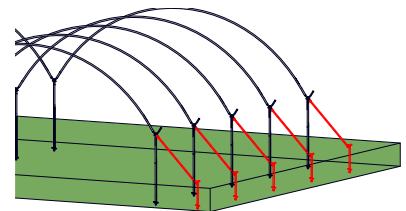
This kit consists of tek screw fittings used to secure the hoops in the end kits.

## HOOP CLIP POLY FIXING KIT

This kit consists of hoop clips and quick release tape spaced at 4 per metre, designed to fix polythene to tunnel ends.

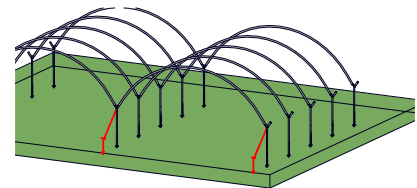
## PERIMETER ANCHORS

This kit consists of connecting perimeter legs and T-anchors at ground level using 40mm struts and hinge clamps, designed to protect the tunnels against side winds.



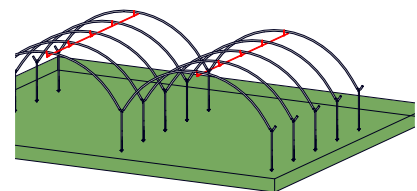
## FRONT STRUT BRACING

This kit consists of connecting end legs and T-anchors at ground level using 40mm struts and hinge clamps, designed to strengthen the ends of the tunnels.



## TOP STEEL BRACING

This kit consists of 35mm steel tubes and steel twist droppers connecting to the apex of every hoop, designed to strengthen the ends of the tunnels. The steel twist droppers reduce friction between metal and polythene, thus reducing polythene damage. The end three hoops in every tunnel are reinforced using termination clamps.

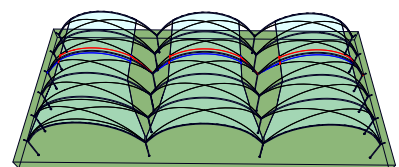


## RAIN CAPS

This kit consists of rain caps to fit into the Y-piece on the perimeter legs, designed to prevent water entering the leg.

## STORM ROPING WITH STEEL BLUE ROPE

This rope consists of additional rope every six hoops, designed to secure polythene in place and add extra security during high wind events.



## TOOLS & MISCELLANEOUS

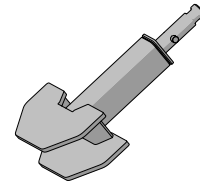
### 3M ALUMINUM VENTING TOOL

This tool is used to push up the plastic on a tunnel and aid with polythene skinning.



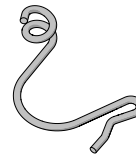
### AUGER UNION - MULITBAY LEG

This tool is used to drill legs or anchors into the ground.



### VENTING CLIPS

This kit consists of clips that are used to secure polythene and ropes in the correct venting position.



### SHEETING ROPE INSTALLATION TOOLS

Kit includes a Bull Ring for ease of sheeting rope installation and two roping clamps for tensioning ropes.