



# **HEAVY-DUTY STEEL FRUIT CAGE**

## **ASSEMBLY AND INSTALLATION INSTRUCTIONS**

**PRODUCT CODE: GDN-100**

**Revision 14**

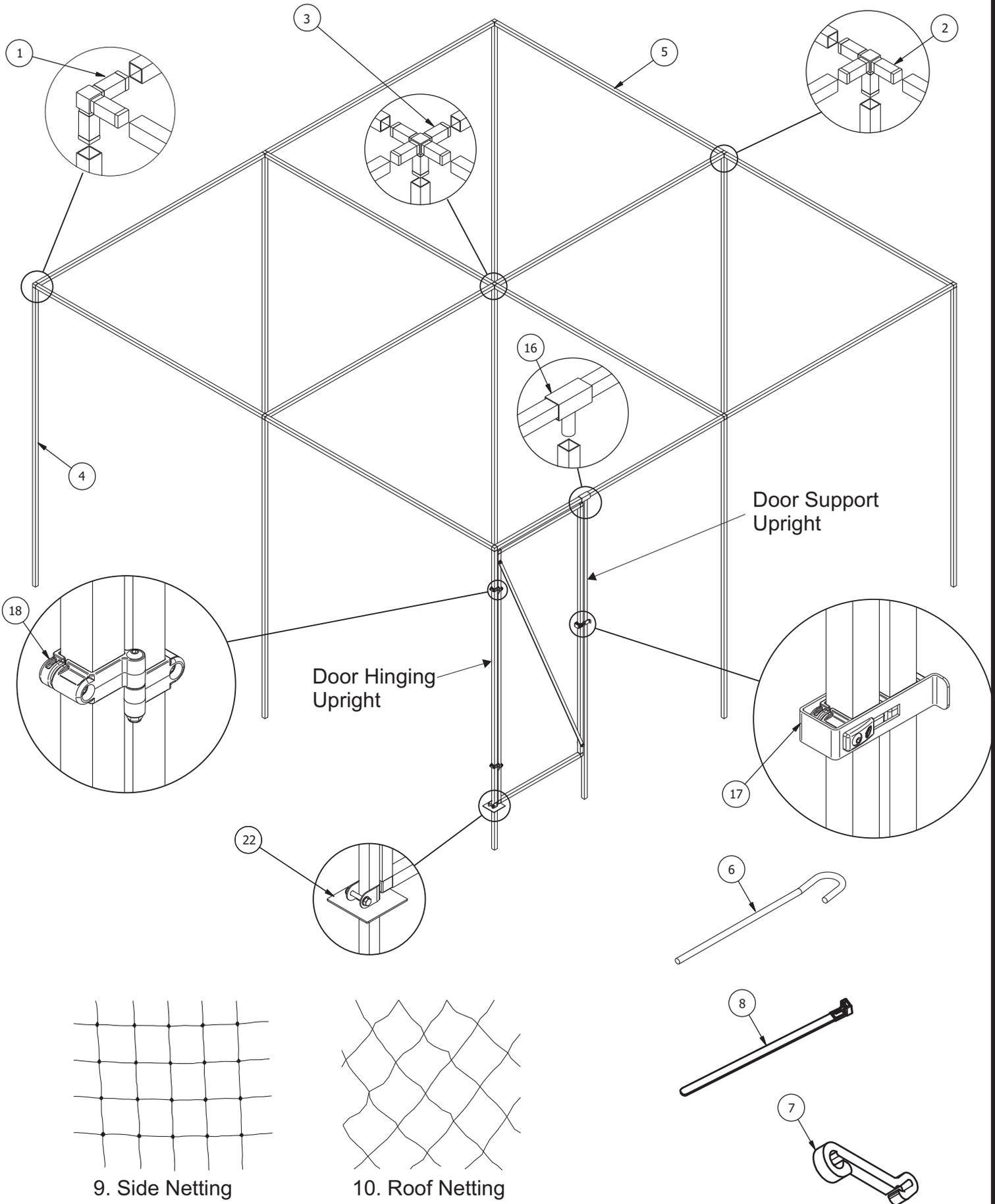
**This cage is not guaranteed to withstand the weight of laying snow.  
Please remove all roof netting during the winter months**

**We recommend three people are required to assembly this product  
safely. For further assembly tips please see the DVD provided.**

**If you wish to concrete your cage in place please see Page 9**

**Note: Your cage may be up to 2% larger than the exact size specified  
due to the joining connectors supplied with your cage**

# PART IDENTIFICATION



**IMPORTANT NOTE: When assembling a cage with braces these must be fitted into position prior to fully inserting crossbars and uprights**

# HEAVY DUTY STEEL FRUIT CAGE ASSEMBLY INSTRUCTIONS

## Introduction

Thank you very much for purchasing this Harrod Horticultural H/D Steel Fruit Cage.

These instructions show the step by step assembly of your cage.

## Safety

To install your cage safely we recommend that you enlist the help of two or more people. Take extra care when working on step ladders on soft ground.

## Tools Required:

1 x soft mallet, 2 x 13mm spanners, 1 x 8mm spanner, 1 x tape measure, 1 x pair of scissors, 1 x spirit level, 1 x hole former (ARC-021) (*optional*).

## Parts Identification

Before constructing the fruit cage remove all protective packaging and check that all parts listed in the pack contents list (CHK800) are present. Use the part identification diagram on page 2 to help you recognise the parts. You will have varying quantities of fruit cage parts depending on the number of units combined to make up your specific arrangement. Each door kit, of which you will have at least one, comprises of the parts listed in the table below left.

### HEAVY DUTY STEEL FRUIT CAGE PARTS IDENTIFICATION (GDN-100)

Ref No.	Part Description	Part No.
1.	Three-Way Connector	GDN-675
2.	Four-Way Connector	GDN-679
3.	Five-Way Connector	GDN-678
4.	2.3m Upright	PGG112
5.	2m/2.5m/3m/3.5m Roof Support	Various
6.	Ground Peg	GPP001
7.	Net Clip	GPP005
8.	Net Tie	GAR914
9.	2m Wide Standard Side Netting	GAR070
10.	4m/6m/8m/12m Roof Netting	Various

### HEAVY-DUTY STEEL DOOR KIT PARTS IDENTIFICATION (GDN105)

Ref No.	Part Description	Part No.
11.	2 x 0.7m Horizontal Supports	PGG117
12.	1 x Diagonal Support	PGG007
13.	2 x 1.9m Vertical Supports	PGG006
14.	1 x 2.3m Door Support Upright	PGG112

**Note:** Within GDN-809 a 3mm allen key has been provided to tighten all M5 bolts

### STEEL DOOR ASSEMBLY PACK PARTS IDENTIFICATION (GDN115)

Ref No.	Part Description	Part No.
15.	4 x Two-Way Connector	GDN-676
16.	1 x T-Joint	PLG005
17.	1 x Latch Pack	GDN-809
18.	2 x Hinge Packs	GDN-808
19.	2 x Hex Bolts M8 x 45mm	GPP510
20.	4 x Plastic Washers M8	GPP710
21.	2 x Nylock Nuts M8	GPP500
22.	1 x Foot Plate Clamp	GDN-108

### STEEL DOOR HINGE PACK PARTS IDENTIFICATION (GDN-808)

Ref No.	Part Description	Part No.
18a.	2 x Hinge Block	GAR832
18b.	2 x M5 x 25mm Skt But Hd Stst	GPP078
18c.	1 x M5 x 45mm Skt But Hd Stst	GPP079
18d.	3 x M5 Nylock Nut Stst	GPP080

### STEEL DOOR LATCH PACK PARTS IDENTIFICATION (GDN-809)

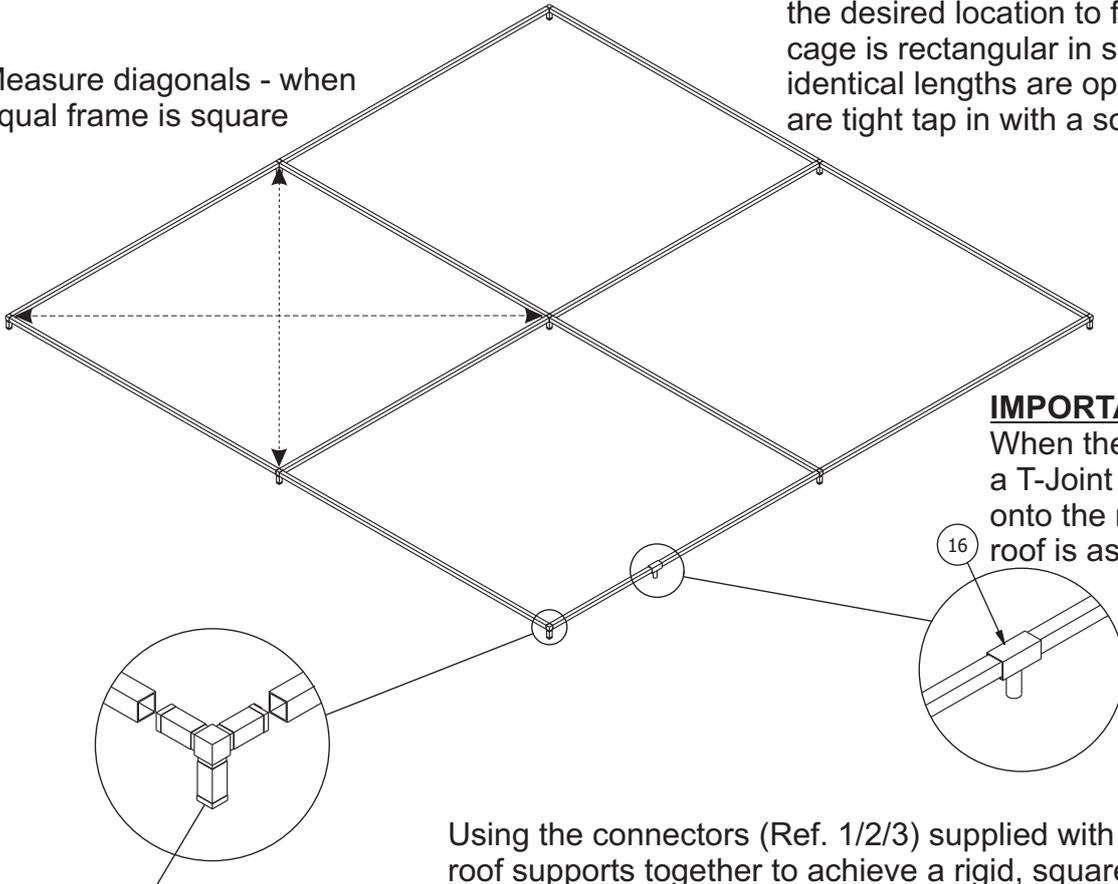
Ref No.	Part Description	Part No.
17a.	1 x Latch Block	GAR831
17b.	2 x Latch Insert	GAR830
17c.	1 x Footplate Block	GAR833
17d.	1 x Stainless Latch	SPG052
17e.	1 x M5 x 25mm Skt But Hd Stst	GPP078
17f.	1 x M5 x 45mm Skt But Hd Stst	GPP079
17g.	2 x M5 Nylock Nut	GPP080

# HEAVY DUTY STEEL FRUIT CAGE ASSEMBLY INSTRUCTIONS

## Assembling the Roof Unit

Measure diagonals - when equal frame is square

Lay the roof supports (Ref.5) on the ground in the desired location to form a template. If your cage is rectangular in shape ensure that the identical lengths are opposing. If connectors are tight tap in with a soft mallet.



### IMPORTANT

When the door position is decided a T-Joint (Ref. 16) **MUST BE** slid onto the roof support before the roof is assembled.

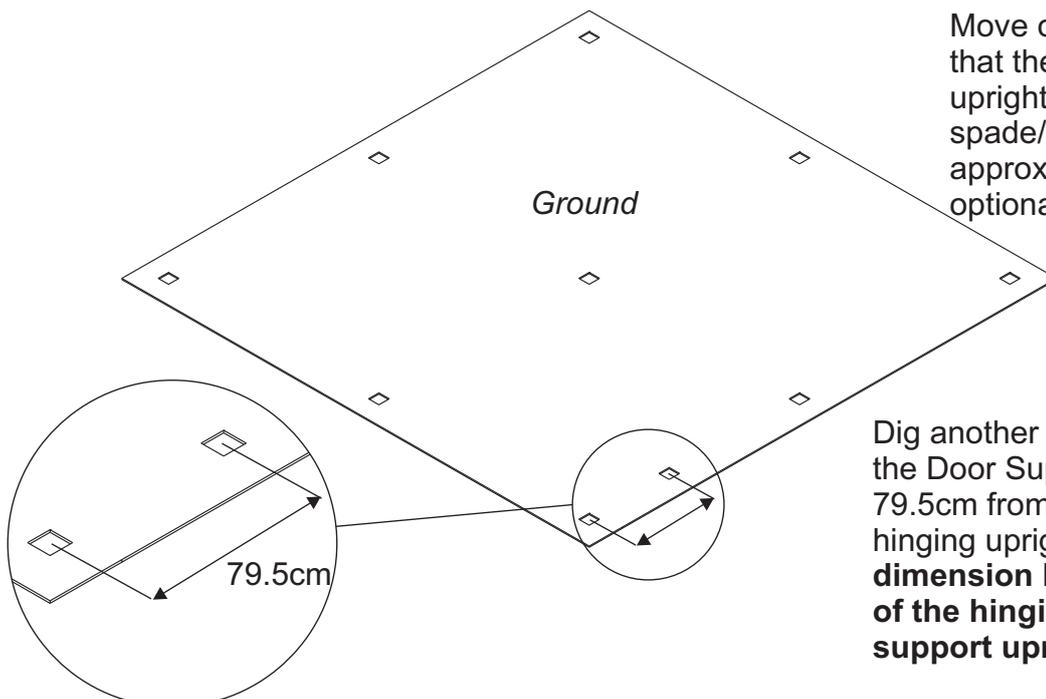
### IMPORTANT

Note orientation.

Using the connectors (Ref. 1/2/3) supplied with your cage fit the roof supports together to achieve a rigid, square structure. Check the structure is square by measuring the diagonals (equal when square) and mark the ground with a ground peg to the locate the required upright positions. Alternatively press connector into the ground to mark upright locations.

## Positioning the Cage

Move of the roof structure aside so that there is access to the marked upright positions and with a spade/trowel dig holes that are approximately 32.5cm deep or use optional hole former (ARC-021).



Dig another hole at the same depth for the Door Support Upright (Ref. 14) at 79.5cm from the centre of the chosen hinging upright holes. **(Note the dimension between the inside faces of the hinging upright and the door support upright is 77cm.)**

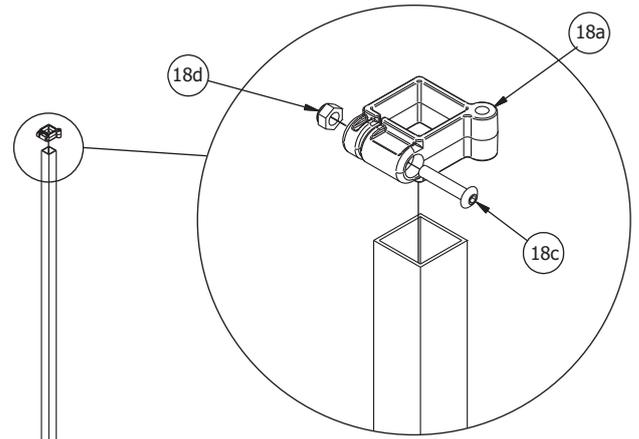
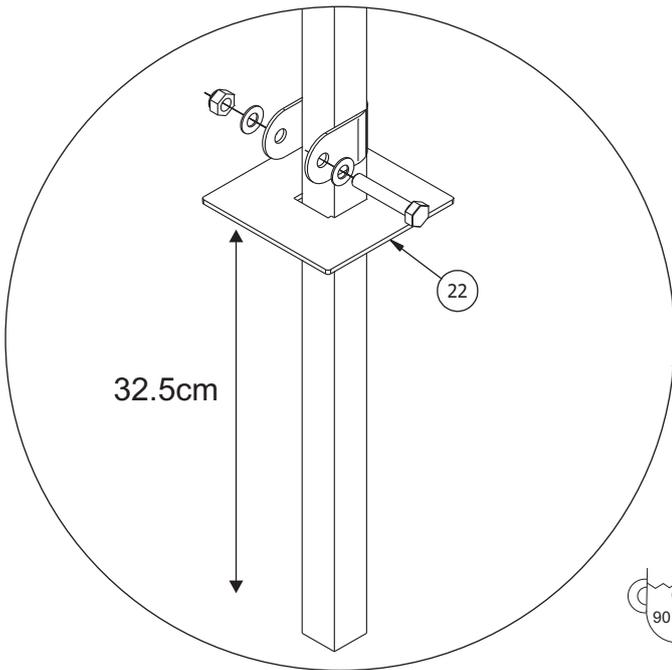
**(Note: See page 9 for concreting instructions if required)**

# HEAVY DUTY STEEL FRUIT CAGE ASSEMBLY INSTRUCTIONS

## Door Hinging Upright

Due to the weight of the door on the Hinging Upright a Footplate (Ref. 22) is supplied for stability. Note when fitting the footplate it should be orientated with the bolt on the opposite side to the door aperture.

Fit the bracket of the footplate to the hinging upright at the marked location of 32.5cm tightening with 13mm spanners, then slide the plate up to the bracket as shown.



Before attaching the roof unit to the uprights ensure that two hinge parts (Ref. 18a) are slid onto the hinging upright. Attach the fixings but at this stage do not fully tighten.

When attaching the hinge ensure the boss of the hinge is positioned on the side which you want the door to swing.

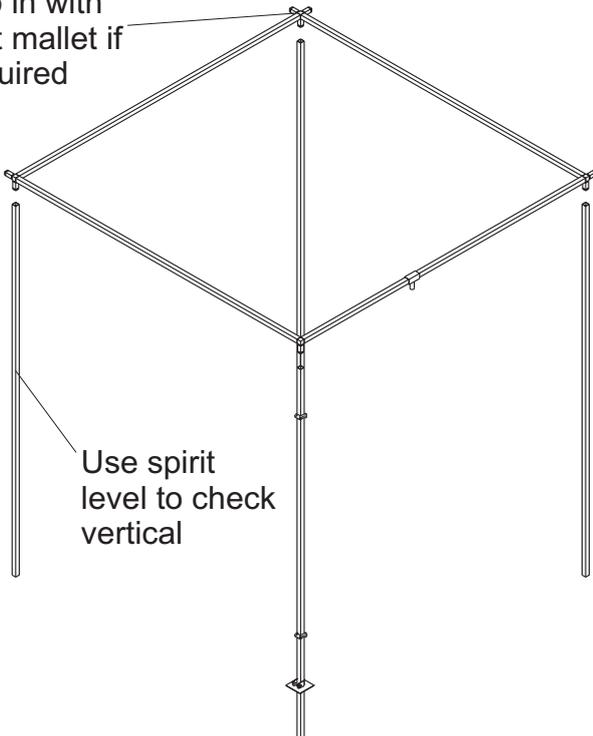


If you are retro fitting a hinge/catch and you are unable to slide the parts into position, place the plastic components into hot water. This will allow the clamp to open without breaking.

## Constructing the Cage

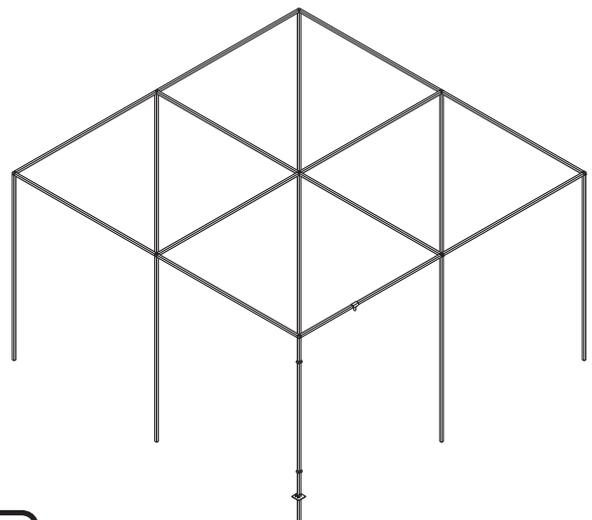
Before constructing the frame, mark every Upright (Ref. 4) 32.5cm from the bottom with a pencil/piece of tape.

Tap in with soft mallet if required



Working on a unit at a time, carefully fit the first four uprights into the pre-made holes and position the first unit of the roof assembly onto the uprights as shown ensuring each connector fully locates.

Follow the same procedure to fit the remaining units.



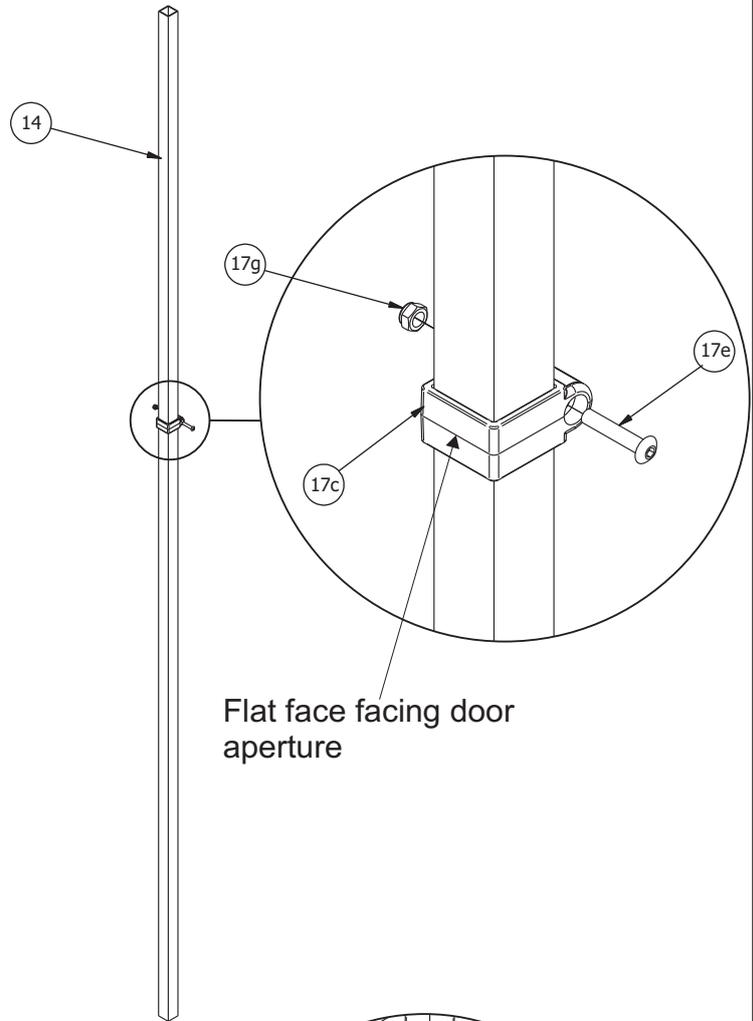
# HEAVY DUTY STEEL FRUIT CAGE ASSEMBLY INSTRUCTIONS

## Door Support Upright

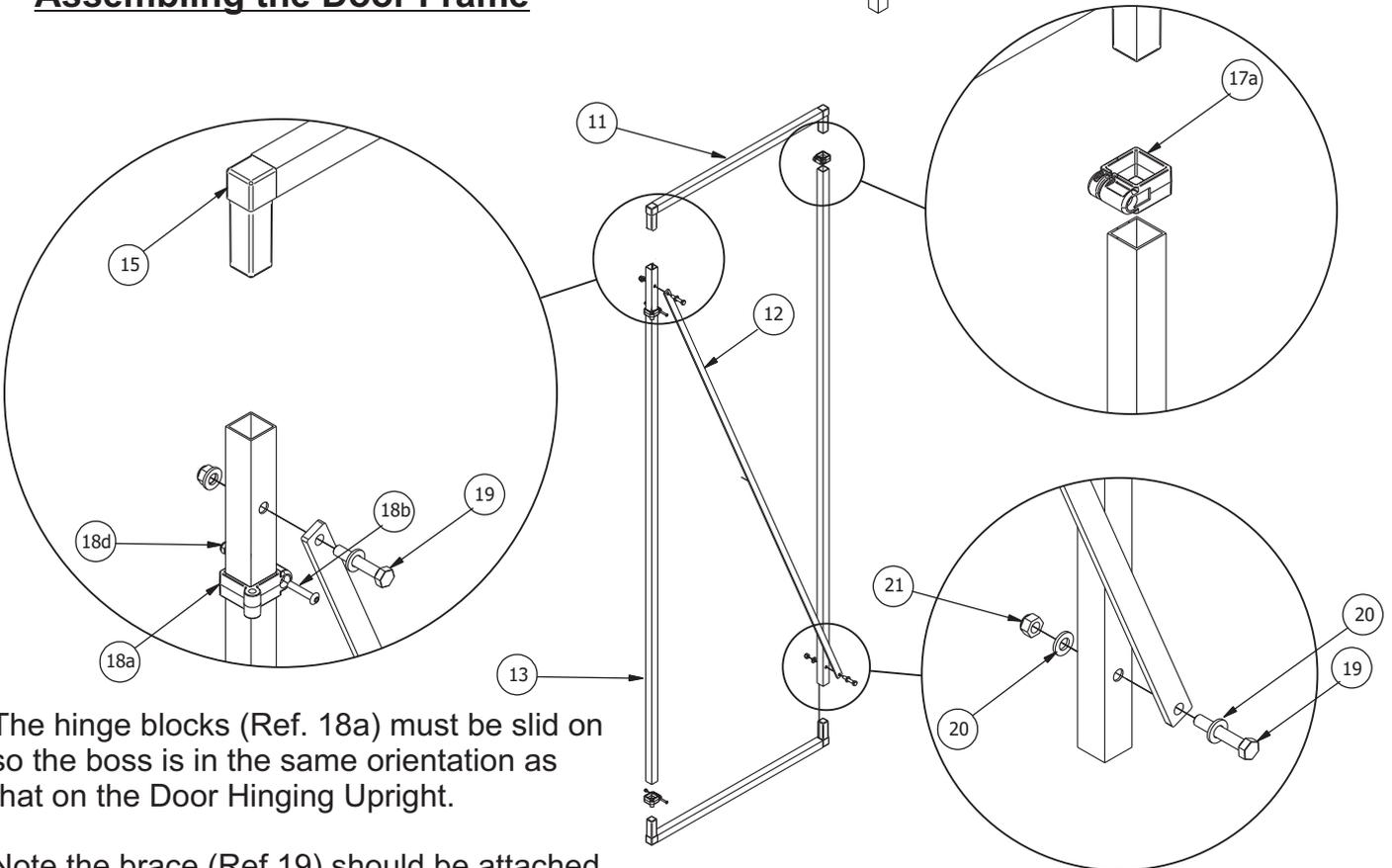
Before assembling the Door Support Upright (Ref.14) to the cage fit the block (Ref. 17c) as shown. Attach the fixings as shown but do not fully tighten.

Fit the Door Support Upright (Ref.14) into the hole made in the ground. Ensure that latch component (Ref. 17c) is orientated correctly, then insert into the T-Joint (Ref. 16) into the top of the upright. Set the upright at the required distance and lock the bolt off in the T-Joint to hold in position.

When the frame of the cage is complete, replace the soil and check that the mark on each upright is at ground level.



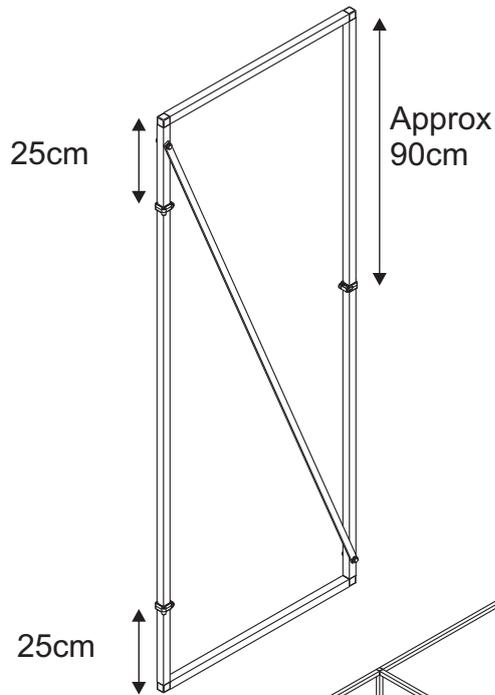
## Assembling the Door Frame



The hinge blocks (Ref. 18a) must be slid on so the boss is in the same orientation as that on the Door Hinging Upright.

Note the brace (Ref.19) should be attached as shown with two 13mm spanners.

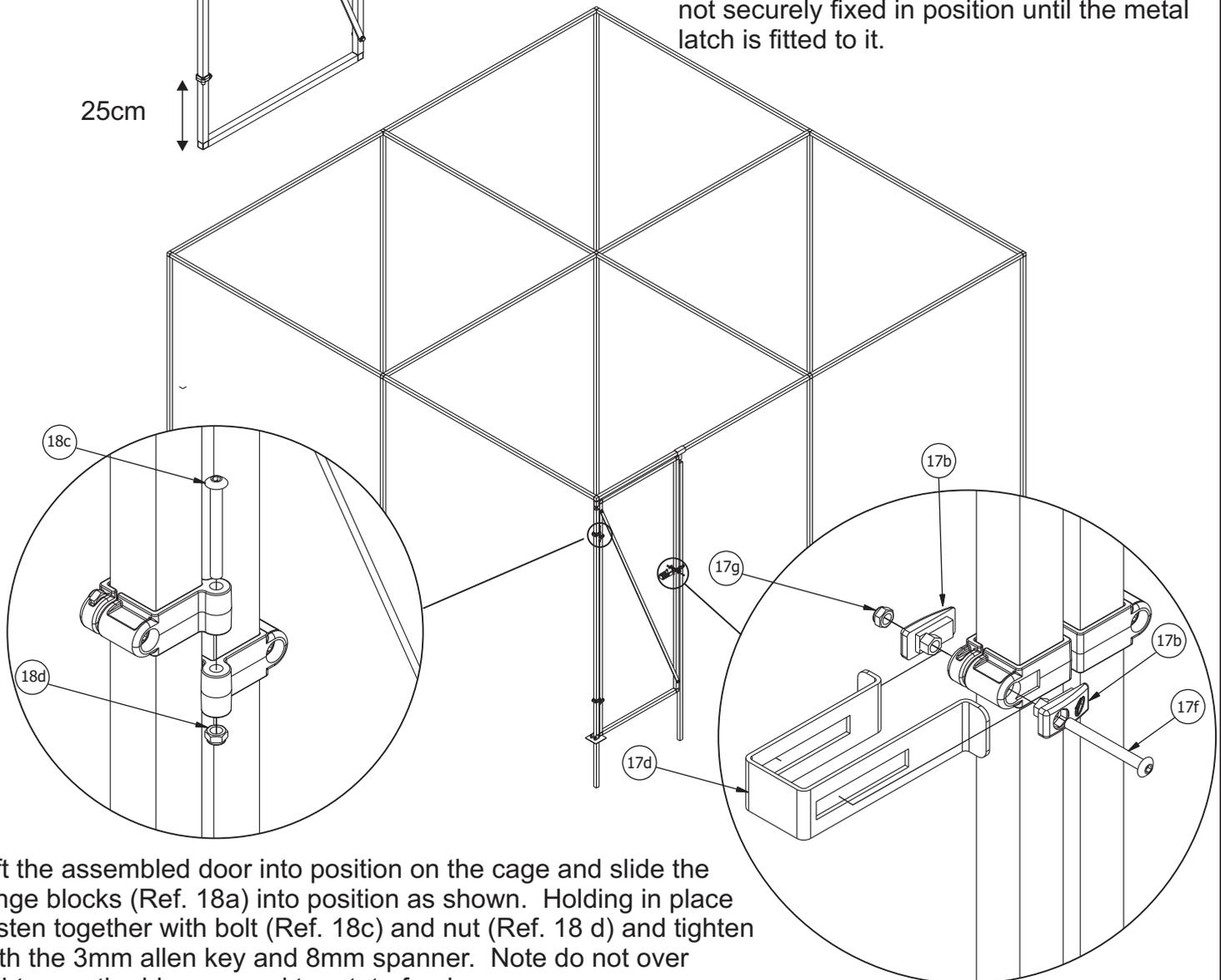
# HEAVY DUTY STEEL FRUIT CAGE ASSEMBLY INSTRUCTIONS



Note the diagram shows an outward swinging door. An inward swinging door can be achieved by swapping the side of hinge axis by reversing the hinge blocks/metal latch.

With the hinge blocks on the door frame slide to the required positions shown and fully tighten the bolts with the 3mm allen key provided.

Note the latch block position is approximate and this can be adjusted according to personal preference. Note the latch block is not securely fixed in position until the metal latch is fitted to it.



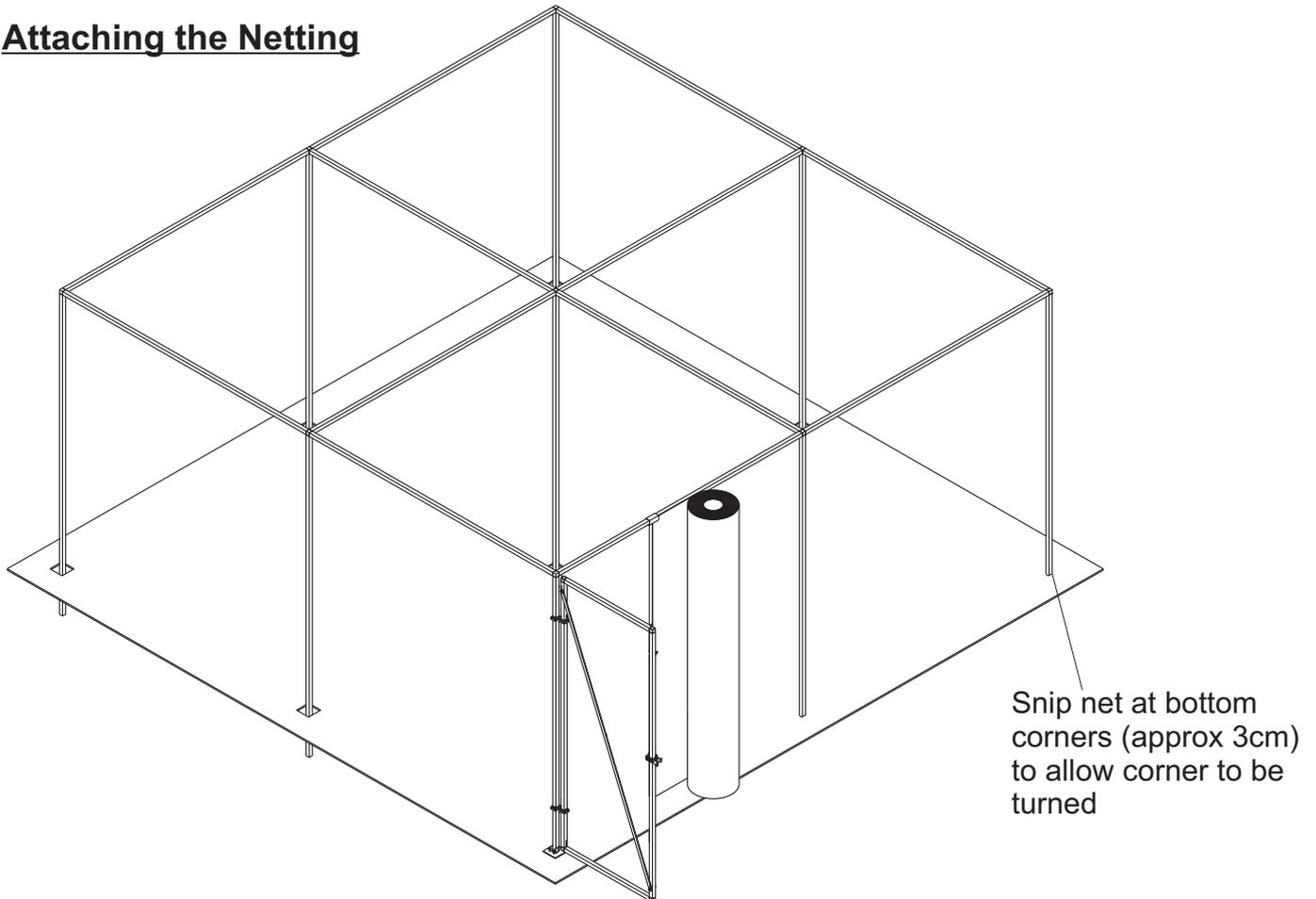
Lift the assembled door into position on the cage and slide the hinge blocks (Ref. 18a) into position as shown. Holding in place fasten together with bolt (Ref. 18c) and nut (Ref. 18 d) and tighten with the 3mm allen key and 8mm spanner. Note do not over tighten as the hinges need to rotate freely.

Position the latch (Ref.17d) over the latch block assembled on the door frame and secure in position with the latch inserts (Ref.17g) and the fixings shown. The latch has one longer side and this should be positioned on the side wished to be opened. Note the latch should not be over tightened, as it is essential it slides easily.

Align the block on the door supporting upright and tighten in place with the 3mm allen key.

# HEAVY DUTY STEEL FRUIT CAGE ASSEMBLY INSTRUCTIONS

## Attaching the Netting



With the door open wrap the side net (Ref.9) around the Door Support Upright and attach in place with net ties (Ref. 8) and unroll around the cage securing the netting every 30cm with a net tie along the roof supports.

Carry on around the cage until the open door is covered. Cut the netting approx 30cm past the catch side of the door. Fold back and secure on the inside of the door. A small hole will need to be cut to in the net allow the latch to pass through.

With the netting in place attach it around the base to the ground with ground pegs (Ref. 6) spaced at approximately 30cm. Secure the netting to uprights with net ties (Ref. 8) at top/mid and base points.

Arrange the roof netting (Ref.10) over the cage ensuring the overlap with the side netting (Ref.9) is equal around the cage. Once in position, attach one edge of the roof netting using the 'S' shaped net clips (Ref.7) to the side netting. Follow round the cage with the net clips ensuring the roof netting is taught. The net clips allow easy removal of roof netting during winter.

When fixing the roof netting around the door unit. Open the door to enable the net to fold back into the cage. Attach the edge of the net back to itself around the roof support to prevent the net restricting the movement of the door.

If you have purchased a cage with butterfly netting use the supplied net ties (Ref.8) to secure the roof netting to the roof bars.

**IMPORTANT NOTE: During winter Harrod Horticultural recommend the Roof Netting be removed completely from your Fruit Cage or replaced with a larger mesh size netting to prevent damage from snow lying on the surface of the net. Please note if this is not carried out you risk severe damage to your cage structure which is not covered by warrantee.**

# HEAVY DUTY STEEL FRUIT CAGE ASSEMBLY INSTRUCTIONS

## Attaching Rabbit Wire

For the protection against rabbits we suggest using our rabbit wire. We recommend a height between 90cm and 1m. For best results use either the 1" or 0.5" mesh. This is available in two finishes; natural, or green.

The amount of rabbit wire required will be equal to the perimeter (The sum of the external sides) of the cage, allowing for some extra to navigate tricky corners. Our rabbit wire is supplied in 10m rolls, so please opt for the next size up when ordering.

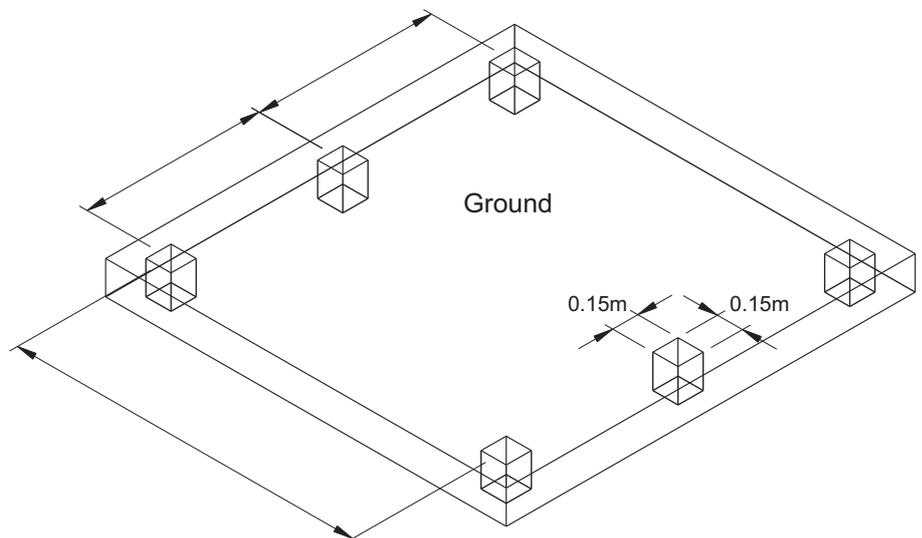
There are three methods for attaching the wire:

- 1) Cable tie the rabbit wire to the base of the side netting such that a skirt 30cm wide is left to sit parallel with the ground. Use ground pegs to anchor the rabbit wire skirt flush to the soil / turf. The skirt will need cutting at every corner of the cage to enable it to sit flush with the ground as the rabbit wire wraps around the cage.
- 2) As per method one above but lift the turf locally to the cage and bury the rabbit wire skirt for a neater finish.
- 3) Dig a trench 30cm deep and sink the wire below the ground, with the lower 10cm bent outwards to prevent tunnelling. Fold the remaining wire upwards, and fix to the cage using cable ties to attach to the side netting.

## Concreting your Cage

in most cases uprights will not require concreting in place. However if you require extra rigidity you may prefer to secure the uprights with concrete.

0.15m x 0.15m holes can be dug to the 35cm required depth at the marked upright locations.



Once the frame is assembled holes can be backfilled with concrete. When concreting your uprights in place leave some space at the top where soil can be placed over the set concrete.

Set the uprights level in the dry mix post-crete by bracing with 45 degree wooden stakes. G-clamps can be used to secure the braces to the uprights. When satisfied that the upright is vertical, soak the post-crete with water as instructed.

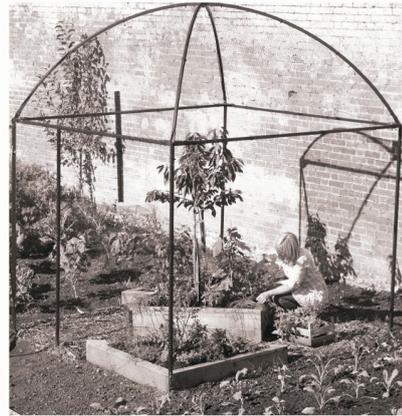
Ready made post-crete is available from DIY stores.

# Don't miss out getting the most from your Fruit Cage with our **EXCLUSIVE** range of products...



## Additional Door Kit

You may wish to add another door kit; especially if you have a larger cage. Our doors can be installed on any side of the cage and feature locking hinges to keep it rigid and from dropping.

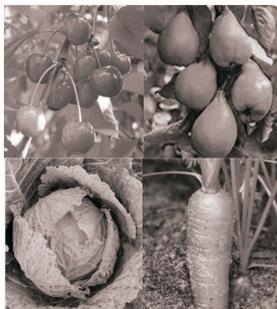


## Raised Beds

You could create an extremely attractive growing area and increase yields by adding raised beds to your fruit cage.

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