

Base Construction Details **Sanctuary / Vega**

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Introductory comments

The following details are provided as a guideline to the construction of a suitable base for the Sanctuary/Vega SOLARDOME glasshouse. We assume that ground conditions are solid with good drainage. As local ground conditions will vary we advise that the following specifications are adjusted where necessary to suit. For this model a simple ring base can be installed if the recommended slab is not required. The internal finish can then be pathed, gravel filled or left as bare earth for planting.

Excavation

Excavate to a minimum of 100mm below ground level (this will be 200mm below finished floor level). Remove all weeds and unwanted organic matter. Excavate any soft spots and fill with compacted sub base material. Excavate the perimeter strip area a further 150mm giving a total depth below ground of 250mm.

Shuttering

Install curved shuttering to a finished height of 100mm above ground level around the perimeter of the excavated area to the finished diameter of 7.96m

Drainage

Install a central drainage pipe. This should lead off to a soak away or pre-existing drains if they are in close proximity. Set the height of the pipe to allow a fall of 3cm from the outside edge of the base to the finished drain point which should be covered with a public safe grill.

Service Duct

Install two service ducts to one side of the required door position. These should exit through the base at approximately 400mm from the base edge.

Sub-base

Fill the perimeter strip and central excavated area with MOT type 1 crushed stone. This should be compacted to a finished depth of 150mm.

DPM

Install a damp proof membrane over the sub-base. This should run up to the top edges of the outside shuttering and be suitably sealed/adhered to the central drainage pipe.

Concrete

Pour the base using C35 concrete with an A142 reinforcing mesh 75mm below the top surface. The outside strip foundation should have 10mm steel tie bars installed, either clipped or welded to the mesh. The base should be float finished, remembering the slight fall to the central drainage point. The outside edge needs to run flat and level as this is where the dome bottom edge will sit.

Completion

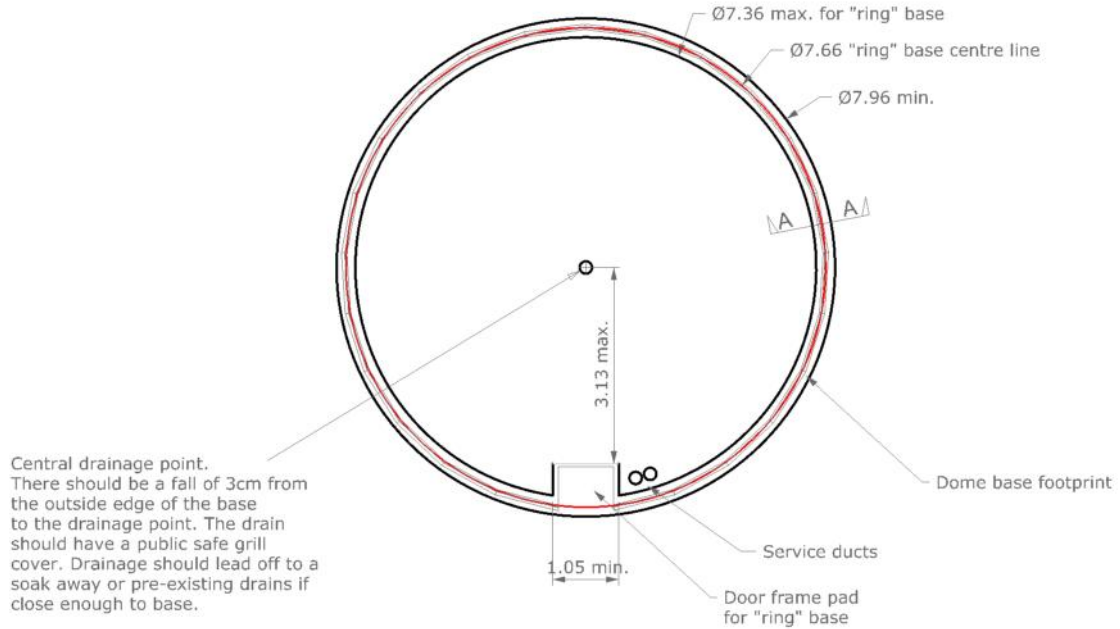
Shuttering to be removed. Ground surface to be made good up to base edge. Site should be left tidy with all materials arising from the base construction removed.

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Plan

Dimensions are in metres



Section A-A (NTS)

Dimensions are in metres

