

APPENDIX 1:

GUIDANCE FOR TREE PROTECTIVE BARRIERS



M
S (Tree) W
Consultancy
Ltd

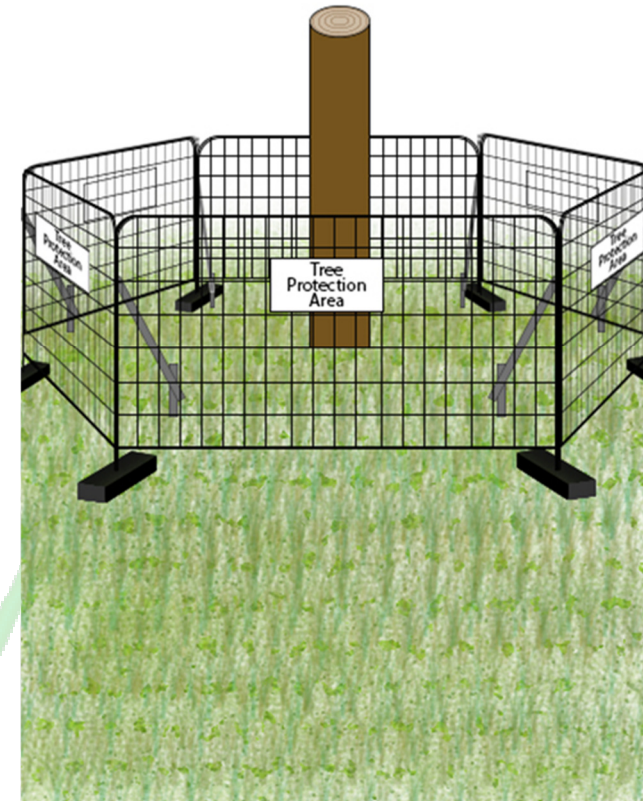


Box tree protection (BTP)

Box tree protection should be used in high traffic areas, where standard fencing would make construction impossible, or to add further protection to a high value tree.

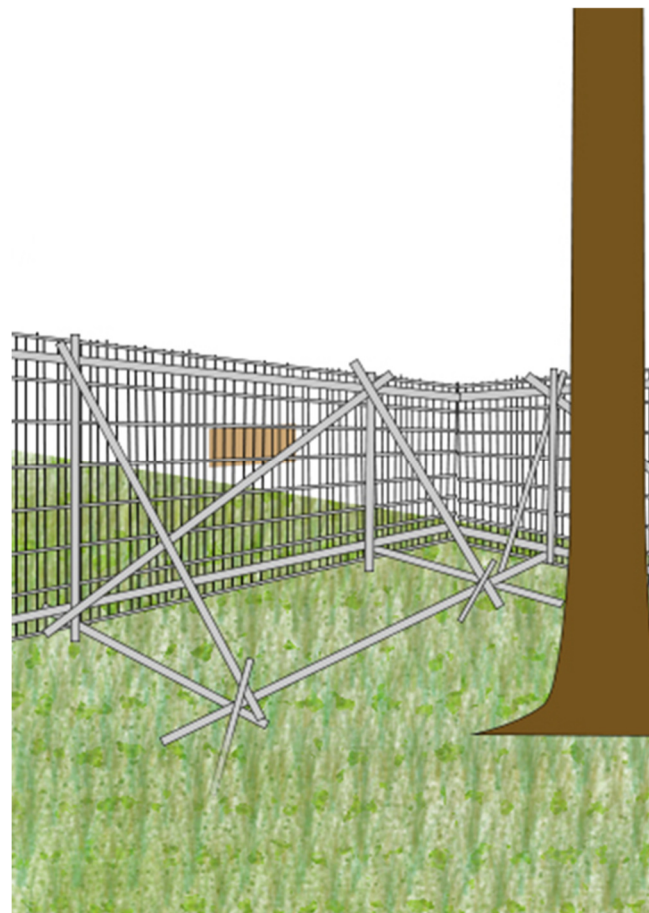
The box should be made from 2440mm x 1220mm x 25mm plywood (or greater). External battening (red in the diagram) should be made from 100mm x 100mm x 1220mm (or greater) pine battens, with a double layer around the base. 500mm x 500mm corner braces (black on the diagram) should be installed to the top corners of the box to support the structure. A minimum distance of 300mm should be kept from the stem. Which should be backfilled with a compressible material such as polystyrene.

The box should be painted in bright colours to ensure it will be seen. The words “TREE PROTECTION” and “STAY CLEAR” should be displayed as per the diagram by either stencilling or displaying signs, both of which can be found in the appendices documentation.



Standard tree protection (STP)

The most common form of tree protection fencing. Consisting of Heras fencing panels, the number of which will be determined by the diameter of the Root Protection Area (RPA) of the tree(s) in question, then footed with rubber feet which should be pinned using a soil pin. A support bar should be placed at a 45-degree angle within the construction exclusion zone at each end of the Heras panel. Each panel should then be clamped to each other using Heras anti-tamper coupler. A “Tree Protection Area” sign should then be installed on every panel.



Heavy tree protection (HTP)

Heavy tree protection should be used on high value trees or in areas of high traffic, where construction around the tree's root protection area is possible. It should be constructed from scaffold poles. The vertical poles should be placed at 3m intervals and then driven into the ground by 600mm. Horizontal scaffold poles should then be placed 2.3m apart on the vertical poles and secured using clamps. A diagonal pole should then be inserted between the two vertical poles, as per the diagram. A third, pole should be attached to the underside of the lower horizontal pole at a 90-degree angle (pointing towards the construction exclusion zone). A diagonal pole should then be inserted and clamped (ideally at 45-degree angle) between the vertical pole and the horizontal pole. A pin should then be inserted into the ground at the base of the diagonal, to which the diagonal and horizontal pole should be attached to. A wire mesh should then be attached to the two horizontal poles using wire ties, the mesh should then be wired to the next panel to secure the area. Tree protection signs should also be displayed on the mesh.



Light tree protection (LTP)

Light tree protection should consist of sweet chestnut pale fencing or extruded plastic barrier. This fencing will be used in areas that are designated for no or later construction and should be used to act as a deterrent for persons entering the area.

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1: Barriers should be installed at the location indicated by the solid Blue line as shown on the Tree Protection Plan. The type of tree protection will also be referenced on the TPP using the abbreviations BTP, HTP, STP, LTP which correspond to the tree protection types on the previous page of this document. No site work should commence until this has been carried out and written confirmation from the Local Authorities representative of the location and construction method approval.

2: Signs placed on the barrier stating no access must be made in to this area or removal of the fencing must be made.

3: Inside the fencing the following rules must be observed: -

No vehicular access.

No fires.

No storage of excavated debris, building materials or fuels.

No mixing of cement.

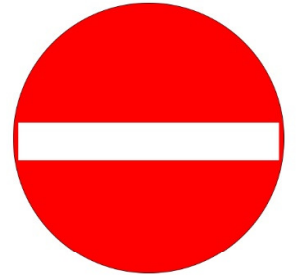
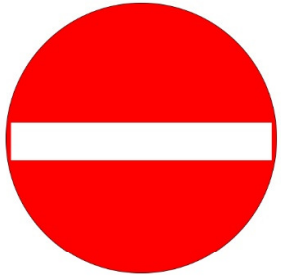
No service installation unless prior approval is obtained.

No excessive cultivation for landscaping purposes.

No barriers shall be removed, re positioned or dismantled without prior approval from the Local Authority.

Barriers should be regularly inspected and if damaged replaced immediately.

The following pages can be used as tree protection fencing signage.



TREE PROTECTION ZONE

DO NOT ENTER

KEEP ALL EQUIPMENT,
MATERIALS AND
CHEMICALS OUT OF THIS
AREA.

**TREE
PROTECTION**

STAY CLEAR