

The **Tree Protection Zone (TPZ)** is the **minimum area** around a tree that must be left undisturbed to protect the root system and maintain the health and stability of the tree.

The TPZ is calculated using the methodology detailed in Figures 1 and 2 below, based on British Standard BS 5837:2005 Trees in relation to construction – Recommendations. Note that TPZ distances are measured from the outside edge of the trunk of the tree.

In some circumstances the TPZ may vary from the area calculated to take into consideration individual site factors - such as existing structures, the presence of rock outcrops, or similar. Variations to the TPZ must be assessed and certified by an arborist.

To help protect the tree a fence or similar barrier is generally erected around the perimeter of the TPZ – refer to Landscape Specification LS 02/2007. Ground surface protection measures may also be implemented within the TPZ – refer to Landscape Specification LS 03/2007.

PROHIBITIONS

No trenching, excavation, soil level changes, storage of materials, disposal of waste, mechanical equipment or other construction activities are allowed in the TPZ. Minor works that do not adversely impact on the tree may be carried out in the TPZ under the direct supervision of an arborist.

**Example: Single trunk tree with a 500 mm trunk diameter (*t*) at 1.5 metres above ground:
 $12 \times t$ ($12 \times 500\text{mm}$) = 6.0m radius TPZ**

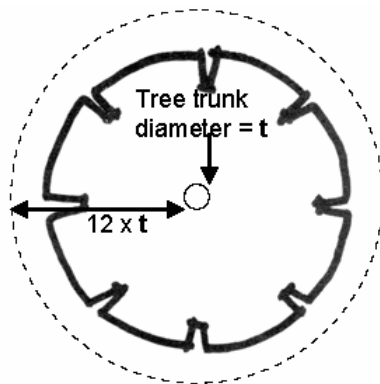


Figure 1: Calculating the TPZ – Individual Tree

For single trunk trees, the TPZ is an area equivalent to a circle with a radius 12 x the trunk diameter (*t*) measured 1.5 metres above ground.

For multi-trunk trees with more than 1 trunk arising below 1.5 metres above ground level, the TPZ is an area equivalent to a circle with a radius 10 x the trunk diameter (*t*) measured at the base of the trunk

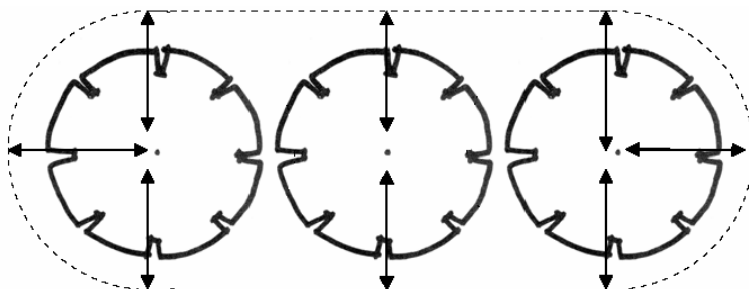



Figure 2: Calculating the TPZ – Group of Trees

The TPZ for a group of trees is derived by amalgamating the individual TPZ of each tree in the group.

DATE: 01/08/2007	AMENDED:	WILLOUGHBY CITY COUNCIL		SCALE: NTS
APPROVED: DRAFT				DRAWING No: LS 01/2007
		TREE PROTECTION ZONE		