



Global Tree Care Limited

www.globaltreecareltd.co.uk

Arboricultural impact Assessment

15 Billet Avenue
Waterlooville
Hampshire
PO7 7SZ

Site surveyed on 29/10/2015. 9.45am.
Weather, Cloudy, raining, light breeze, good visibility.

Request: To carry out an arboricultural impact assessment on an multi stemmed Ash tree (*Fraxinus excelsior*). This tree is protected with TPO order. Due to construction works and approved construction of a Garage, assess the requirement for root protection.

Tree Details.

Species: *Fraxinus excelsior* Height: 12m

Diameter: Multi stemmed, left to right as shown on below left photograph:
22cm, 25cm, 27cm, 34cm. All measured at 1.5m (dbh)

Crown diameter 10.2 m

Good health. No foliar abnormalities present, even growth on all stems. No visible sign of fungal invasion seen from close observation. Four stems present, three having angle of 35 degrees and over (confirmed by measurement). The main stem remains vertical. There are signs of root heave and root action which is evident from cracks in the brick paving and cemented side walls.



The above photographs show the form and structure of the tree.
The crown width measuring all stems averages 10 metres.
The area requiring protection can be seen in the photograph below.



The fibrous rootzone of the tree will extend to the outside edge of the branches. Given the proximity of the construction works, these works will not affect the health of the tree in any way. The movement of construction vehicles (small mini digger) will cause a small amount of compaction. At present this is being controlled by the use of ply-board. This is sufficient if full size sheets are placed over the construction area (2440mm x 1220mm x 15mm thick). This will spread the weight of a small mini-digger sufficiently without causing any harm to the rootzone.

The driveway access to the new garage must take into account the rootzone of the protected tree. I would advise the smallest surface excavation possible. Removing only the turf will ensure the least damage to the surface roots in the area. Once this has been completed a weight distribution system should be put in place, in order to reduce any ground compaction in the future. For this I would recommend the use of a cellular ground system. The link for the system is copied below.

http://www.prestogeo.com/tree_root_protection_trp

Any system of this type or an interlocking system will be suitable for the trees protection. The protection method should be placed under any driveway construction in order to minimise any weight compaction to the fibrous rootzone.

The construction works will have very little or no detriment to the health of the tree, if these methods are applied. As shown in the above photograph, any construction is at the very limits of the dripline and rootzone and will not cause any significant damage or reduce the trees health.

Ian Lansley

30/10/2015