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Lee Fenton

Planning Services Ltd

FOUNDATION DETAILS

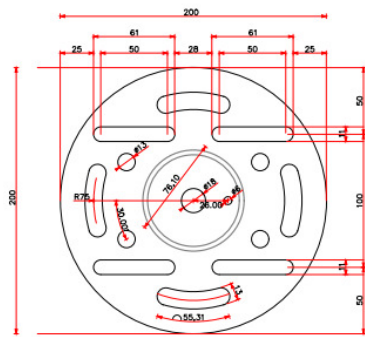
ERECTION OF MODULAR TIMBER FRAMED GARDEN BUILDING

Foundations

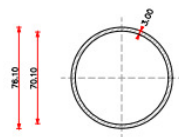
Ground screw foundations will be installed to support the new building. No intensive ground works are proposed, nor is any concrete slab. The screw piles are installed by a ground screw specialist, 1250mm screws are screwed into the ground to a minimal 11kn load with a handheld drill. This minimises the impact of machinery on the ground. To protect tree roots, the ground screw locations as designed by the engineers are marked out on the ground, working to around 1.5m centres. In each screw location, before the ground screw is installed, the ground is excavated by hand to a depth of 300mm to determine if there were to be any impact to any major tree roots. If any root over 25mm diameter is discovered, this system has the flexibility to move the ground screw to avoid the root and if required and use an additional ground screw to bridge the sensitive area.

Art. no.:	1042
Weight:	9,00 kg
Materials:	Pipe: 76,1 x 3,0 x 1250 mm Flange: 8 x 200 mm Steel: S235
Surface treatment:	Hot-dip galvanized.
Installation:	ELECTRIC MACHINE HYDRAULIC MACHINE
Use:	Fixation of beams, columns and profiles.
Fixation:	M16 / M12 / M10 bolts.

Top view flange

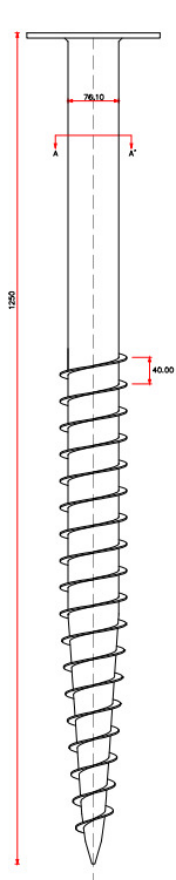


Cross cut pipe (A-A')



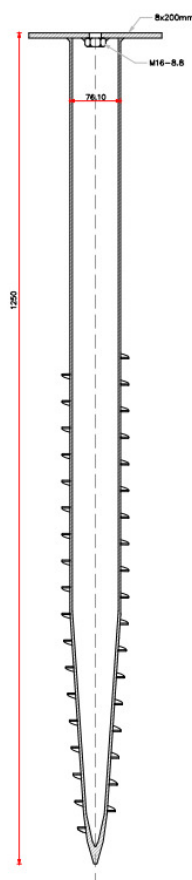
Scale 1:4

Side view



Scale 1:8

Cross cut



The ground screw is widely recognised as the go to solution for foundations where sensitive tree roots are of concern. Garden Spaces (the building supplier) use this method widely in hundreds of buildings erected under PD rights across the UK.