



Screw pile toe



Screw Pile Installation complete



Beam attached to screw piles to disperse weight to foundations



Versatile applications. In this situation 6 screw piles used to support a fuel tank. Tank weighs over 70T when fully loaded with diesel. Also due to head height issues, screw pile installation was viable versus a piling rig.



Versatile applications. In this situation screw piles used to support columns for a bus washing facility.

Screw Piles

Screw Piles are very versatile and can be used in many different situations. The advantages include; **1)** they don't require a piling rig to be installed (an excavator with an attachment is sufficient. The size of the excavator will depend on the bearing capacity to be achieved and ground conditions). The ability to use an excavator rather than a piling rig can aid with head height issues and tight access areas, **2)** ground collapse is not an issue, as the screw pile steel casing acts as a formwork as the pile makes its descent, **3)** pouring concrete and installing the steel reinforcement in the pile is fairly straight forward as the pile steel casing acts as the formwork, **4)** the pile casings are purchased in predetermined lengths and can be driven till the bearing capacity is achieved and then are cut off at the appropriate depth. The main disadvantage to utilising screw piles is having ground conditions where floating rocks are an issue. Although repositioning piles is an easy process, if required. In the past we have used screw piles in footings for fuel tank installation, building structures/ sheds, noise walls, and retaining walls. Refer to the above photos for examples.