TERRADRIVE
PILING AND FOUNDATIONS LTD.

Steel Bearing Piles

1800 PILING
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Steel Bearing Piles are most commonly employed in civil engineering structures (road bridges, marine structures, etc) where their high axial, lateral and tensile load capacities are required.

Steel bearing piles of tubular or H-sections are most commonly used. Due to the very high material strength, pile sizes are relatively small resulting in low displacement volume, and consequently minimal vibration and soil heave. For this reason steel piles are an excellent alternative to in-situ replacement piling techniques for vibration sensitive sites.

As with all driven piling solutions, steel bearing piles provide a proven and tested pile, eliminating guesswork to produce a cost effective product that can accommodate a wide variety of subsurface conditions.

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Due to the relative small section area, steel bearing piles are very suitable where vibration and soil heave are considerations.

Advantages of Steel Bearing Piles

ECONOMIC

- speed of construction - follow on work is immediate, thus no delays to site activities,
- no spoil or arisings = no 'hidden' costs of attendances to piling rig or stockpiling / removal of material off site,
- no over design – the individual pile sizes are dictated by the load capacity required and not by the machinery employed.

SAFETY

- No manual handling of component materials on site,
- No 'wet' concrete work,
- No open bores or excavations,
- Piles readily identifiable when installed - no trip/fall hazards
- No spoil/loose material in piling area.

ENVIRONMENTAL

- No spoil arisings from installation – this is particularly important on 'brown field' or contaminated sites,
- Factory controlled manufacturing ensured that there are virtually no wasted materials,
- Installation procedures improved general ground conditions by compacting surrounding sub-soils.
- Minimal soil displacement = low vibration construction

QUALITY

- Piles can be driven through boulder strata without risking damage to the pile.
- Pile modules can be visually inspected prior to installation,
- Installation method proves pile capacity – piles are installed to a prescribed set or resistance directly correlating to the load capacity.

Pile Size (H section)	Pile Size (Tubular)	Load Range
203mm x 203mm x 54kg/m	139.7mm ϕ x 8mm wt	up to 500kN
254mm x 254mm x 85kg/m	193.7mm ϕ x 10mm wt	up to 800kN
305mm x 305mm x 126kg/m	219.1mm ϕ x 12.5mm wt	up to 1200kN
305mm x 305mm x 149kg/m	273mm ϕ x 12.5mm wt	up to 1500kN

Table 01 typical pile capacities

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TERRADRIVE

PRODUCT PORTFOLIO

PRECAST HOUSE FOUNDATIONS

PRECAST CONCRETE PILING

LOW VIBRATION PILING

RESTRICTED ACCESS PILING

STEEL BEARING PILES

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