Sheet Piles

Sheet piles are steel sheet material with interlocking edges that are either driven or vibrated into the ground to provide earth retention or excavation support.

Sheet piles are mainly used for retaining walls, land reclamation, underground structures such as car parks and basements, in marine locations for riverbank protection, seawall or cofferdams. The walls can be both anchored or stutted for temporary excavation support.

The interlocking system facilitates easy positioning of the piles and driving, as well as providing a close-fitting joint to form an effective water seal. In water charged ground, a sealant is applied/brushed into the joints prior to driving the sheets. The sealant expands in thickness to form a watertight joint.

Sheets are commonly installed with High Frequency vibratory hammers. Advanced vibrators also come with variable moment to adjust to different ground conditions. Fixed mast rigs are used for installation to ensure verticalities of the walls. While pendulum vibrators are used to achieve deep depths or extend over hard to reach areas.
High frequency vibrator
Model 40 VML with hydraulic sheet pile feeder

- Cost Effective
- High Productivity
- No Spoil (important in contaminated ground.
- Recyclable
- Close to Wall Installation

Effective length – max. 28 m

Double clamp and hydraulic sheet pile feeder
Projects:

Garden Island

**Scope:** Installation of AZ Sheet Piles up to 16m deep to provide full cut-off a retaining wall.

Ruby Tower- 15 Gadigal Av., Zetland

**Scope:** Design & Installation sheet piles 14m deep into very dense sands for a 2 level basement excavation. Temporarily supported by ground anchors.