

SHEET PILES

Sheet piling is a retaining system comprising of overlapping sections of uniform steel sheeting.

Sheet piles can be used for the construction of retaining walls, temporary shoring, cofferdams, docks, jetties, bridge abutments, flood and ocean protection, cut-off walls, and more. Furthermore sheet piles can either be temporary or permanent depending on the desired application.

Installation of the sheet piles involves using either low or high frequency vibration and is most effective in clays, sands, and clay-sand mixtures due to the comparatively small displacement of the soil.

With the use of modern technologies such as those on the Liebherr 255, guide walls for installation are no longer required as in-built monitoring systems ensure real-time feedback to the operator to observe tolerances and make adjustments as required.

Advantages

(When using Liebherr 255 Rig)

Minimal site preparation

Guide wall no longer required

Very accurate vertical tolerances
Using specialist clamps two sheets can be installed simultaneously

Efficient system of changing clamps to match various sheet pile types

Very quick and precise construction, especially in loose soils

Able to control groundwater

Can be extracted and used many times



PROJECTS

TPI – Pilbarra Iron Core, Port headland, WA

PROJECT OUTLINE: Port Hedland is at the coastal gateway to some of the world's richest resource deposits of iron ore. Continued world demand for steel drives major investment in mining and transport infrastructure to feed export markets.

AVOPILING SCOPE OF WORKS:

Construction of Sheet Piles and Pile Caisons (raked and vertical).



Sydney International Airport, Runway End Safety Areas (RESA), Sydney, NSW

PROJECT OUTLINE: The Runway End Safety Area (RESA) is a 90m x 90m paved area mandated by changes to CASA operational requirements. The RESA itself is aircraft strength pavement formed on a series of land bridges spanning the M5 East Tunnel, the heritage listed SWSOOS (Southern and Western Sydney Ocean Outfall Sewer) and the existing airport perimeter road. The airport perimeter road will be realigned and widened.

AVOPILING SCOPE OF WORKS:

Construction of 223No Sheet Piles type ZA up to 16m deep.



Burrup Materials Factory, WA

PROJECT OUTLINE: The Burrup Fertilisers Pty Ltd is one of the world's largest ammonia production facilities, with a production capability of approximately 850,000 metric tons annually. The plant provides employment for approximately 100 production and administrative staff.

AVOPILING SCOPE OF WORKS:

Construction of 210No Sheet Piles type ESC up to 22m deep.



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