



**GFWA**

SUSTAINABLE TECHNOLOGY

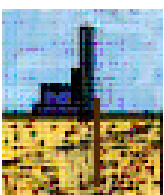
# SHEET PILE



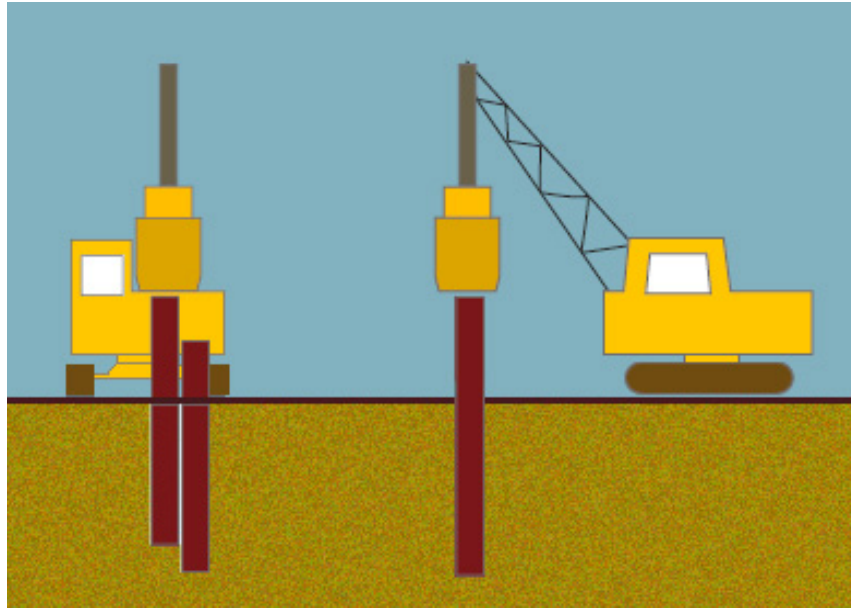
Sheet piling is an efficient and affordable wall system that can be used to retain the ground both in saturated and unsaturated conditions, inland, near shore and offshore, and for temporary or permanent retaining. In this system the sheets are driven into the ground to the desired depth, and thus construction of footings is avoided. External stability is made available by providing sufficient amounts of horizontal passive reaction or additional reaction using ground anchors.

Implementation of sheet piles with anchors results in lesser ground deformations.

As an alternative to interlocking sheet piles, H beams can also be driven into the ground with the same equipment.



## Installation of Sheet Piles



The piling rig lifts a first sheet pile and drives it into the ground. The same cycle is repeated for the next sheet pile and drives it into the ground as it interlocks with the previous sheet pile. There is no interlocking between H beam driven piles. The space between the sheets is filled with filler members.

## Some Applications of Sheet Piles



- Permanent and temporary walls
- Marine walls
- Excavations
- cofferdams



## Recent References

**Mullaloo Building, Perth (WA, Australia)**  
**Mounts Bay Road Building, Perth(WA, Australia)**  
**Barratt Street Building, Perth(WA, Australia)**  
**Peelhurst Pump Station(WA, Australia)**

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