

O-Pile Steel Pipe Sheet Pile

Harbours



Civil

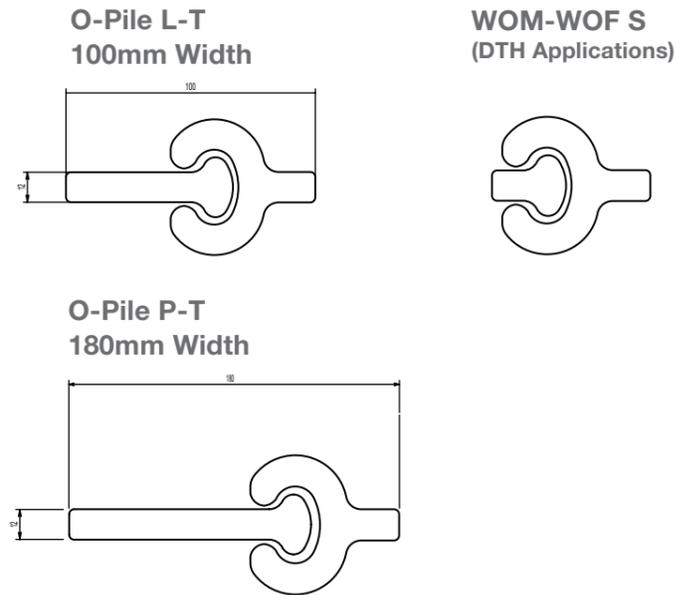


Bridges



O-Pile systems are a rapidly expanding construction method that utilize pipes to form extremely strong foundations, barriers and retaining walls in a cost-effective way.

O-Piles® are steel pipes with welded-on patented connectors that form a continuous or combined steel wall. O-Piles® offer a stronger, more efficient, and cost-effective alternative to high modulus wall using beams and heavy Z or U-Type sheet piles.



O-Pile Technical Advantages

Reasons why engineers and designers now consider O-Pile system to be superior:

Efficiency: In traditional combi-wall systems like HZM and PSp, weight and strength are increased linearly. In Pipe-Pipe Wall, a given wall thickness has almost negligible weight increase as pipe diameter increases, while strength increases.

Capacity: The load bearing capacity of O-Piles® are significantly higher than Z and U shape sheet piles. In many cases, they could eliminate crane rail footings on the quay side.

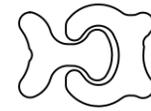
Connectors: WOM/WOF connections are designed specifically for the application of Pipe-Pipe walls, hence they are easier to weld and install as compared to other Pipe-Pipe wall methods. The interlocks are hot extruded to provide unmatched strength and elongation characteristics that resist extremely high tension and rotational forces to more than 3400 kN/m.

Target

- ✓ Waterfront Projects
- ✓ Infrastructure
- ✓ Rail and Tunnels
- ✓ Harbours
- ✓ Underground or Substructure
- ✓ Bridges
- ✓ Utilities
- ✓ Environmental Protection

With O-Pile WOM-XL and WOF-XL interlock connectors, the design engineer is able to utilize readily available, locally produced pipes to provide practical, cost-effective solutions that exceed project requirements.

Sealants



WOM - WOF
Useful for connecting Pipes to Pipe Walls in Small Confined Spaces.

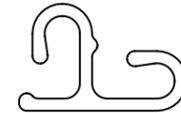


V20
For 90 degrees corner turns (+/- 60 degrees) Suitable for Larssen Interlocks and JIS Type Sheet Piles.



V22
Useful for connecting Pipes to Sheet Pile Walls with Larssen or Cold Formed Piles.

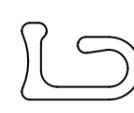
CFC 90



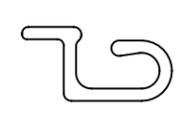
CFTee



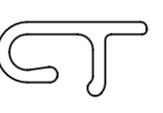
CF



BCF I



BCF II



Connectors suitable for our Cold Formed Range of Sheet Piles.

C90



C135



C6



C9



Through our network of production facilities in Asia, the C90 and C135 connectors are suited for Larssen Sheet Pile or JIS Type Sections and suitable for Silent Pilers often used in this region. C6 and C9 provides an excellent connector for Pipe and Sheet Pile Combination Walls.

Waterproofing O-Pile

If your O-Pile project involves cofferdams, de-watering, tunnels, cutoff walls for site remediation, or any application where water leakage presents a challenge, then sealed O-Piles are an excellent solution. WADIT®, a globally-proven sheet piling interlock sealant, is highly effective in O-Pile interlocks and can meet the most challenging waterproofing needs.

The WOM/WOF-XL and -XXL connectors can be supplied already filled with WADIT, ready to be delivered to the pipe manufacturer, or to the job site, for welding onto the pipe piles. (The length from interlock to stem of the WOM/WOF-XL ensures that the sealant is not affected by heat generated from welding.) Applying WADIT in a factory environment is preferred, as it eliminates site preparation and application, and it speeds up construction.

WADIT sealant, used in conjunction with O-Pile pipes and connectors, is increasingly the “go-to” solution for engineers and designers looking for an effective waterproofing option that is strong, economical, safe and convenient.

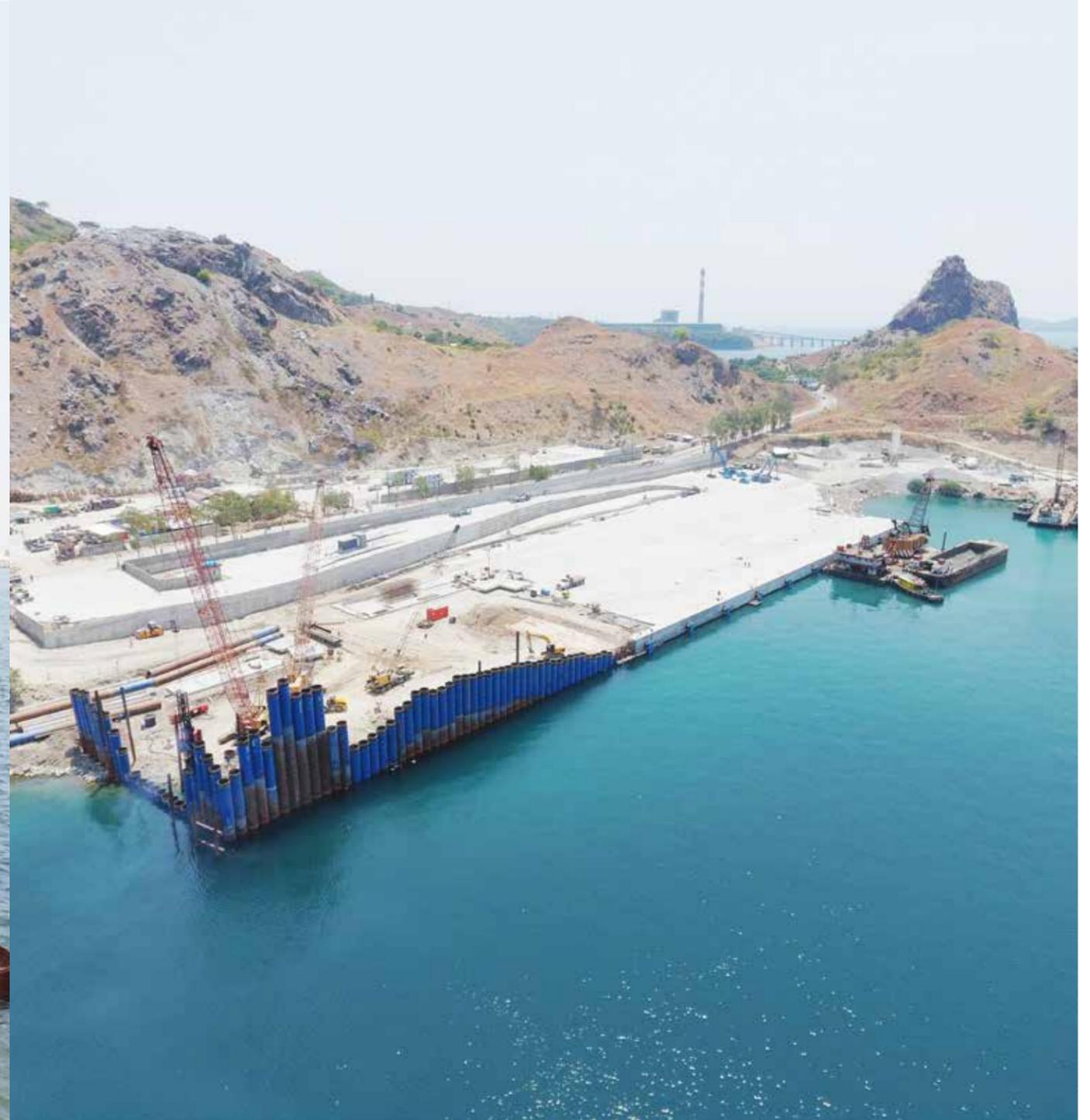
WADIT = Watertight

Manila North Harbour Port Inc. Pier 10-14



Port Upgrading
Supplied O-Pile Interlocking Steel pipes,
Cold Formed Steel Sheet Piles and Tie Rods

Seasia Nectar Port Services Inc.



Seasia Nectar Port Services Bulk Terminal Mariveles Bataan
Supplied O-Pile Interlocking Steel Pipes, Tie Rods and Bollards