



# Piling

**Intent:** To eliminate or minimise the risks of fatalities, injuries and events arising from piling operations.

**Engineered Safety in Practice (examples):**

- Eliminate or reduce overhead and/or underground services interfaces and consider headroom for piling operations
- Avoid water-based piling operations.
- Use GIS to establish crane / piling platform locations and capacities and any underground services
- Prioritise use of foundation designs that reduce or eliminate the need for piling
- Consider use of displacement piling to minimise spoil and open hole risks

## FSR Controls

1. Identify falls and dropped object risks associated with piling during Safety in Design, constructability assessments, and work planning, and implement controls to eliminate or engineer out these risks.
2. Piling operators and crew members hold the required national or industry competency and applicable high risk work licences for the equipment and tasks being undertaken.
3. Verify that all piling rigs meet Laing O'Rourke's minimum plant and equipment standards, are approved for site use, and display a valid PileSafe sticker prior to operation.
4. Obtain a Permit to Load before setting up and commencing piling operations.
5. Before loading any vessel for piling or marine works, obtain a Permit to Load from the Temporary Works Coordinator, supported by a verified stability assessment from an accredited marine surveyor.
6. Before using a piling rig to conduct lifting activities, it must have a lift plan and be approved to lift/suspend loads.
7. Protect pile holes not in use with temporary works approved covers and physical barriers, or secure fencing to prevent risk of falling.
8. An exclusion zone is established for the auger and slew zone using physical barriers and signage.

## DEFINITIONS

**Accredited marine surveyor:** An accredited marine surveyor is an AMSA-recognised professional who inspects and certifies barges used for construction, ensuring they are stable, fit for purpose, and compliant with marine safety regulations.

