

Controlled Modulus Columns – Optus Stadium, Perth

# SPECIALIST GEOTECHNICAL CONTRACTOR

## RESIDENTIAL & COMMERCIAL DEVELOPMENTS

BUILD ON US





# ABOUT US

**Menard Oceania is a specialist contractor for geotechnical and civil engineering activities** operating throughout Australasia. With a reputation for quality, innovation and engineered solutions, our expertise in ground improvement, specialist foundations, grouting and environmental remediation has facilitated the delivery of cost-effective solutions for the construction of a range of structures.

## Our services

With an emphasis on **value added design** and **innovation**, Menard Oceania can bring its extensive experience to projects in the planning and design development phase to provide optimal geotechnical solutions.

Our in-house design capabilities underpin our strength in undertaking contracts in both subcontractor and main contractor capacities at the highest level of technical excellence.

## Local expertise supported by a global network

Menard Oceania is the Australian subsidiary of Menard and part of Soletanche Freyssinet Group, who are world leaders in geotechnical, environmental and civil engineering construction.

The combination of Menard Oceania's local resources with the vast experience and history of the Soletanche Freyssinet group generates an unrivalled capability in design and execution of geotechnical projects.

## Ground Improvement



Dynamic compaction



Dynamic replacement



Stone columns



Vibro compaction



Vertical drains



Vacuum consolidation

## Ground Reinforcement



Jet grouting



Grouting



Controlled modulus columns



Soil mixing

## Drilling



Anchoring & soil nails



Micropiles



Mine backfilling

## Environmental Remediation



Slurry Walls



Soil Remediation



# THE SOLUTION

Residential and Commercial developments are driven by a financial model which requires a high quality, cost effective solution. Typical piling solutions inclusive of highly reinforced concrete slabs have been traditionally utilised, whereas Menard Ground Improvement solutions allow economical slab on grade floor systems, resulting in **economical** and **program** benefits, as well as **environmental advantages**.

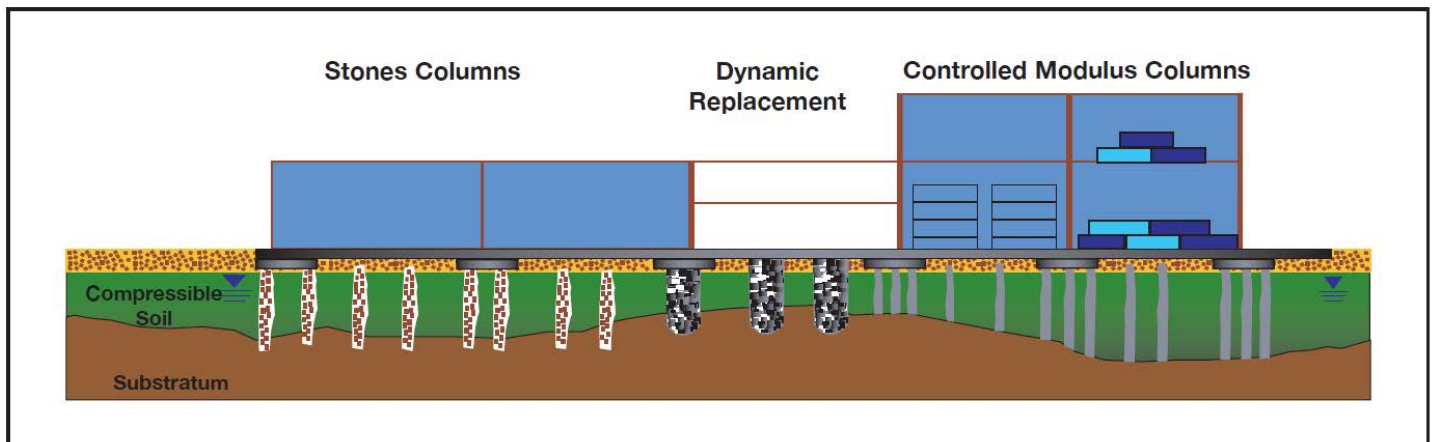
Our Ground Improvement solutions are well adapted to loads induced by Residential and Commercial structures such as slab on grade and isolated footings.

Depending on the in-situ soil properties, Menards inhouse design engineers rely on three particular ground improvement techniques to deliver a cost and time effective, sustainable solution to our clients: Controlled Modulus Columns, Stone Columns and Dynamic Replacement

In addition, our methodologies offer advantages in difficult sites, i.e. former landfill sites or sites with varying ground conditions. Due to our design and installation approach, changes in ground conditions or encountering obstructions can be easily overcome without redesign of the foundation solution.

## Objectives

- Allow uniform loads of 50KPa
- Allow isolated loads of up to 400 tn
- Reduction of differential settlements to less than 1 / 1,000



Where the presence of contamination such as cold Tar is encountered on a site, Menard can offer alternative solutions to excavate and replace, such as In - Situ Treatment of the contaminant source, with the following advantages,

- Eliminating the cost of transportation and disposal of these very hazardous material.
- Large reduction in the creation of toxic odours which are created by disturbing the contaminated ground through excavation and loading
- Elimination of affecting the local groundwater through in-situ treatment. No additional water is generated by the process.
- An environmentally sustainable approach to treating contamination



## **Brisbane International Cruise Terminal** **Port of Brisbane Precinct, QLD**



## **The Fitzgerald** **Baltimore, USA**



## **Lock Tower** **Richmond, USA**







## Barangaroo Stage 4 & 5 Remediation Works

**Darling Harbour, NSW**



## Sale Former Gasworks Trial – Insitu Solidification

**Sale, VIC**

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