



— FOR ARCHITECTS & DESIGNERS

BLADE **PILE**  
NZ

## Precision piling for architects **and their clients.**

Site-specific pile design and installation, engineered to AS 2159.

---

### STANDARDS

Designed to AS 2159

### EXPERIENCE

10+ years in New Zealand

### COVERAGE

Nationwide certified installer network

# A smarter alternative to **concrete piles**.

An engineered steel pile that replaces concrete piles, driven piles and grout piles on most sites.

- 
- 01 Designed to AS 2159**  
Pile design to AS 2159 (Piling: Design and installation).

---

  - 02 Fast, precise installation**  
Generally completed in a single site visit.

---

  - 03 Measures ground strength as it goes**  
Installation torque confirms capacity, so you know what you're building on.

---

  - 04 Higher load capacity**  
Outperforms a bored pier or standard screw pile of the same size.

---

  - 05 Removable, reusable, recyclable**  
Great option for temporary structures.
- 

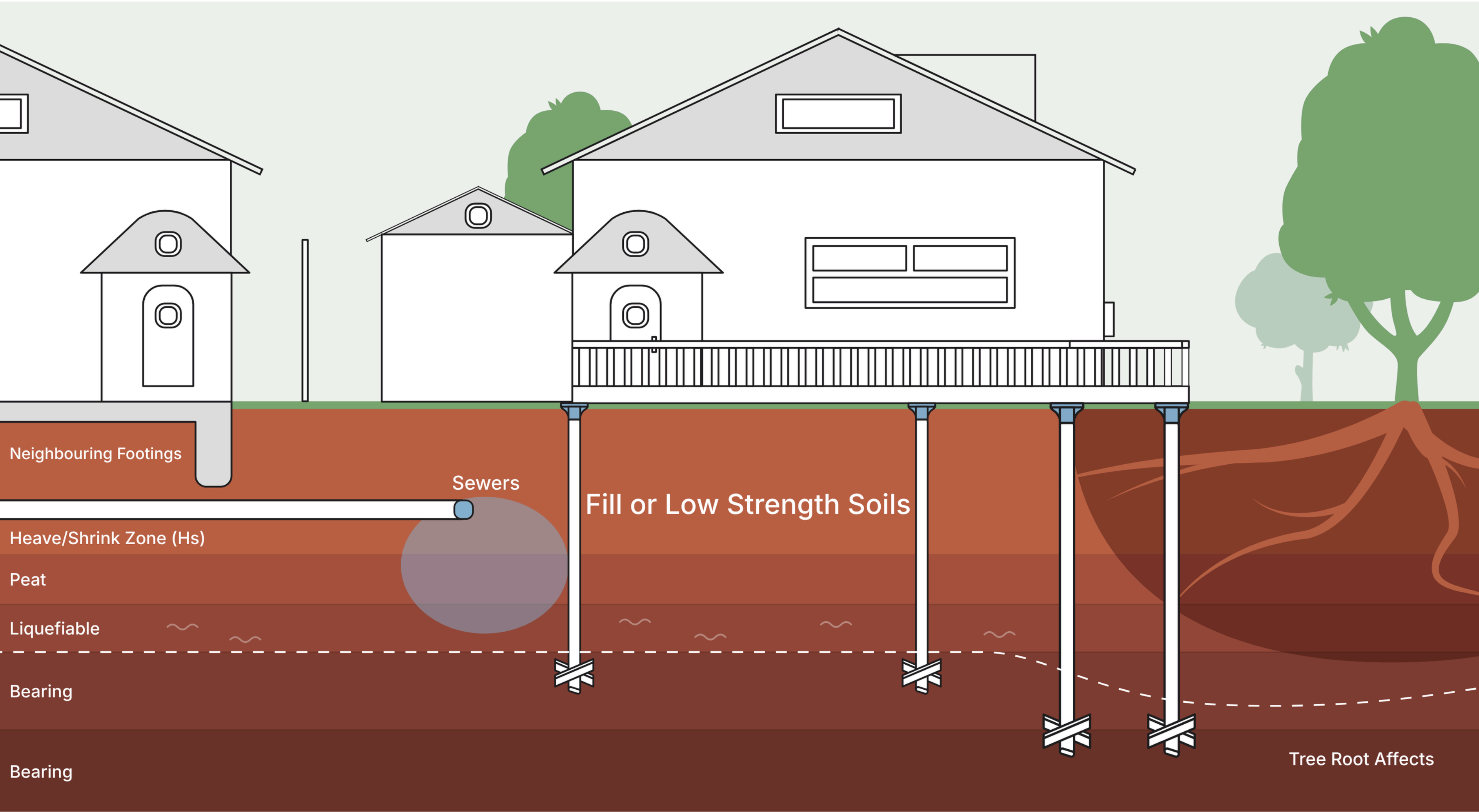


— Blade Piles set out and ready for installation.

# One system for most problem sites.

More than one in four piling projects in New Zealand suit Blade Pile. If your site has a foundation challenge, we've almost certainly solved it before. What's a problem site for most is everyday work for us.

- |    |                          |    |                   |    |                          |
|----|--------------------------|----|-------------------|----|--------------------------|
| 01 | Expansive soils          | 02 | Liquefaction      | 03 | Archaeological sites     |
| 04 | Contaminated soils       | 05 | Bridging services | 06 | Underpinning             |
| 07 | Close-proximity works    | 08 | Re-levelling      | 09 | Temporary works          |
| 10 | Retaining wall tie-backs | 11 | Suspended slabs   | 12 | Earthquake strengthening |



— One system addressing multiple site conditions beneath a single building.

## TYPICAL SITES

- |                                        |                                                   |
|----------------------------------------|---------------------------------------------------|
| — Residential and commercial builds    | — Coastal sections, high water tables             |
| — New builds, granny flats, extensions | — Central-city, compressible fill, tight setbacks |
| — Timber and concrete floors           | — Post-earthquake TC3 land                        |

Same system, designed for what's actually in the ground.  
**Talk to us early in the design process.**

## Different **by design.**

Blade Piles and ground screws are both steel, but they carry load in very different ways.

### GROUND SCREW

Relies on skin friction along its slender thread, so its capacity depends on how well the shallow soil grips it. That thread often passes through several soil types, and any of them can soften, shrink or liquefy.

### BLADE PILE

An end-bearing pile that carries higher loads. Its blade is screwed down to a competent bearing layer and carries the load at the toe, below the weak near-surface soils. Installation torque confirms its capacity, and it's designed to AS 2159.

For timber floors on **TC2 and TC3 land**, the Blade Pile adjustable cap lets the floor be re-levelled after an earthquake without digging out or packing, subject to specific engineering design.

### PATENTED SLIP JOINT PILE CAP

## A cap that moves with the ground, **so your building doesn't.**

With a Blade Pile and raft slab, the Slip Joint Pile Cap forms the Pile Cap Slab System, a proven alternative to an isolated bored pier. It absorbs ground movement such as clay swelling, and sits under a waffle raft or stiffened raft slab without a bespoke footing detail. Independently assessed by Aurecon Australia.



— Blade Pile installation underway.



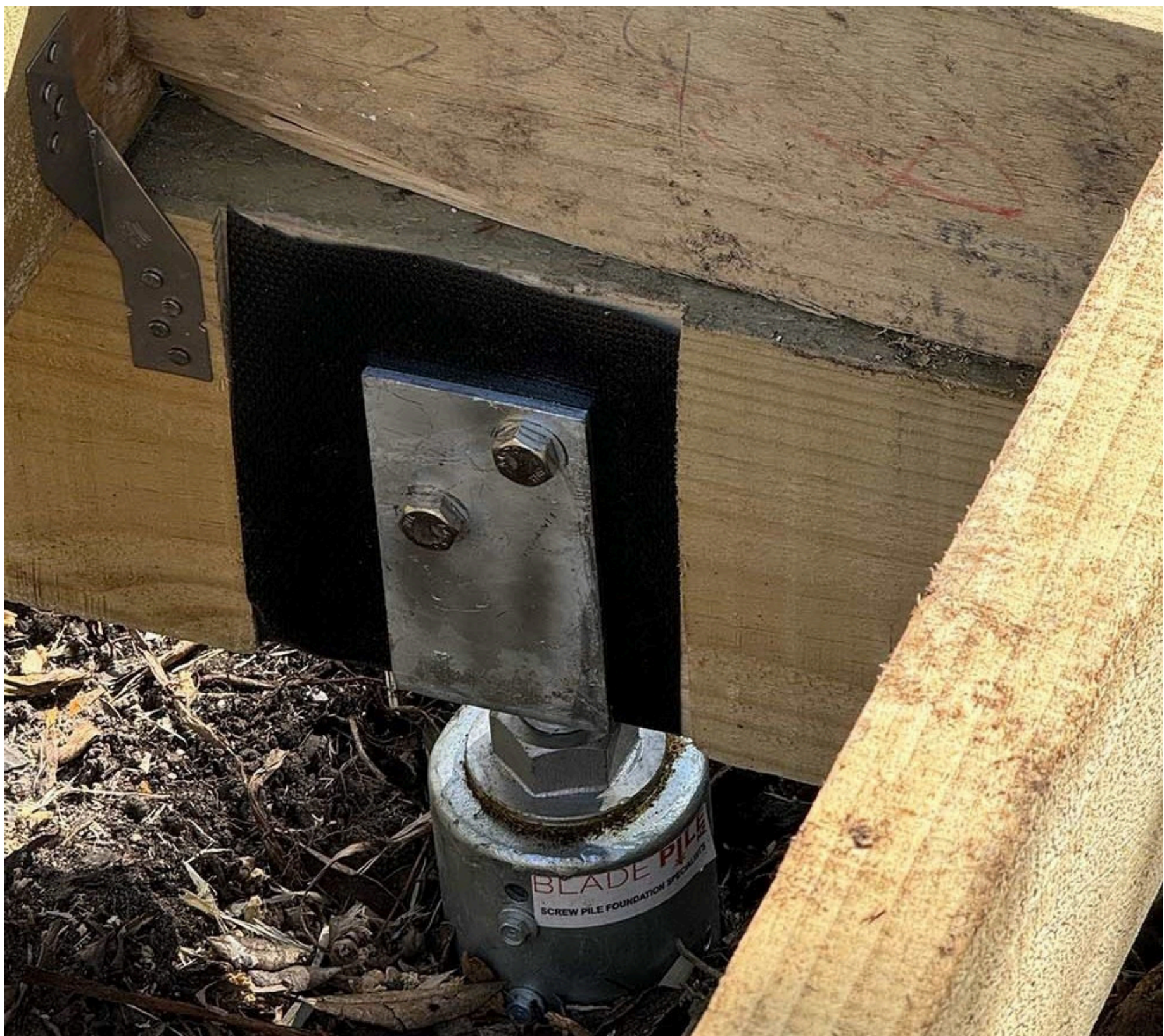
— Depth isn't an issue for us.

# Adjustable on site. Built to fit.

Piling for timber floors, decks and additions, plus underpinning for existing buildings. We have a large network of certified installers, and LBP builders are also being trained nationally to install Blade Piles themselves, delivering savings to clients.



— Granny flats and classrooms.



— Adjustable bracket to timber bearer.

- 
- 01

**Adjustable after installation**  
Shim or thread-lock top plates let floor levels be set on site, so additions match existing floor lines.
- 
- 02

**Connections to suit the detail**  
Welded, sleeved or bolted, fabricated for the structure above.
- 
- 03

**Underpinning without rebuilding**  
Brings failing or undersized foundations up to standard with minimal disturbance.
- 



— Timber post connection for relocatable buildings.

## IDEAL FOR

- 
- Granny flats
  - Relocatable buildings
  - House extensions
  - TC1, TC2 & TC3 ground
-

## — INDEPENDENT TESTING

# We don't just say it works. **We prove it.**

An ongoing programme of independent structural and geotechnical testing, including destructive testing of the blade and pipe well beyond design limits, and fusion-welded connections to the pipe with independent weld testing. Verified and certified over the years by:

---

— Structerre Consulting Engineers

---

— Aurecon

---

— URS

---

— Griffith University

---

— Foundations Specialist Group

---

— GHD

---

— Prompt Certification

---

— University of South Australia

---

— ALS Group

---

— Alfa Labs

## WORKING WITH YOUR DESIGN TEAM

---

### 01

#### Site & loads

You or your engineer send the site details and structural loads.

---

### 02

#### Site-specific design

Pile type, size and depth calculated for that ground, with a producer statement.

---

### 03

#### Install & sign-off

Certified installation, tested on site, with compliance documentation.

## — GET IN TOUCH

# Talk to us **early.**

The right site data means the right pile, first time.

**Peter Fowler**

**NATIONAL ENQUIRIES**

**P** 021 712 962

**E** peter@bpnz.co.nz

**W** bladepile.co.nz

BLADE **PILE**  
NZ