

muscleslab™

muscleframe™

Your Ready to Build Slab Foundation System



RESIDENTIAL

COMMERCIAL

INDUSTRIAL

Engineering intelligence meets practical construction, providing a ready to build foundation solution for Christchurch's TC2 & TC3 zones.

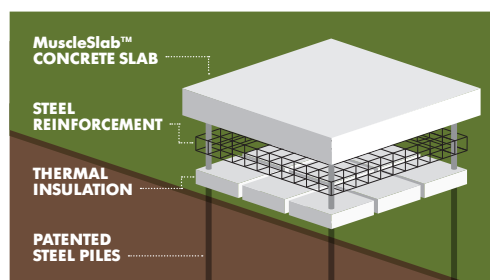
MuscleSlab and MuscleFrame are a revolutionary advance in delivering the most structurally secure, affordable and integrated foundation solutions for your residential, commercial or industrial build.

These highly engineered systems combine our patented multiturn 'Helicast' screw piles with a high strength concrete slab or steel framing (for timber flooring), delivering you a ready to build floor level.

muscleslab™

MuscleSlab is the most highly engineered concrete floor slab, designed to meet your requirements and carry the loads and stresses encountered within seismic activity zones.

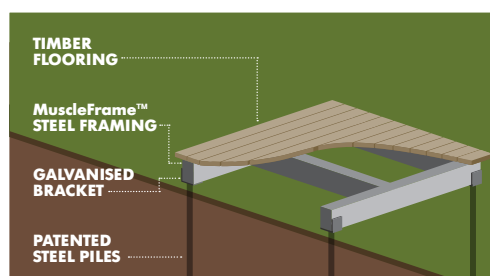
MuscleSlab combines a high strength concrete slab with a steel screw pile system designed to deliver unique compression and tension performance loadings.



muscleframe™

MuscleFrame is a truly unique innovation, combining our patented multiturn 'Helicast' screw piles with a highly engineered structural steel framing system designed to support your timber flooring.

MuscleSlab and MuscleFrame foundation systems are engineered for superior strength and ductility meeting all New Zealand standards.



HOW IT WORKS...



DESIGN & CONSTRUCT

We design and construct the MuscleSlab and MuscleFrame to suit your specific requirements.



FOUNDATION PILES

We screw in tubular steel piles fitted with a patented, multiturn, 'Helicast' helix.



FLOOR SLAB

We construct the concrete slab or structural steel frame.



READY TO BUILD

Single point responsibility for the speed of design and construction of your ready to build floor.

A Safe, Strong & Flexible Foundation Solution



BUILDING SAFETY IS NOT A LUXURY - IT'S WHAT WE DESERVE.

Strong & Flexible

MuscleSlab is constructed using high strength concrete, prefabricated steel reinforcing & our patented flexible multiturn 'Helicast' screw piles.

MuscleSlab and MuscleFrame are engineered to withstand movement and loads to the levels specified by Canterbury Earthquake Authority and NZ seismic loading standards, meeting all Christchurch City Council FMA requirements. Should an event occur causing liquefaction or subsidence of the ground, your MuscleSlab and MuscleFrame foundation will remain stable as it is founded on a solid bearing stratum below the liquefaction effect zone.

Custom Design

MuscleSlab and MuscleFrame is a modular system and is easily configured to suit any footprint. We design the MuscleSlab and MuscleFrame to suit all of your specific requirements.

A simple, one-stop process

We facilitate the entire design and construction of your MuscleSlab and MuscleFrame taking responsibility for all aspects of the process including design certification, installation and time management providing you with a hassle free ready to build floor.



RESIDENTIAL



COMMERCIAL



INDUSTRIAL

Ideal for all seismic areas of New Zealand, including TC2 and TC3 earthquake zones, flood prone areas, hillsides and areas with contaminated soils.

Utilities can be easily cast into the concrete.

Engineered & customised to suit your specific requirements.

Multiturn 'Helicast' screw steel piles for ductility & strength.

No vibration installation.

Brings no spoil to the surface restricting disturbance of contaminated soils below.

Can be raised above flood levels or hillside sections.

Fully certified.