



**constructure**  
structural engineering

— OUR RESIDENTIAL WORK

*Structural  
engineering is  
a science, but  
understanding  
customers is  
an art*



**Established in 2008 by Cory Bedford.**

**27 staff in Christchurch and  
Auckland offices.**

**Over 10,000 completed projects.**

**Eight award-winning projects.**

Constructure is a young, innovative company that brings together an experienced team to provide high-quality structural engineering solutions for buildings, from simple residential buildings to complex commercial, institutional and industrial buildings.

**WHAT WE BRING**

**From concept to construction.**

**Total customer focus.**

**Deadline discipline.**

**Respected for our reliability  
and integrity.**



OUR TEAM

**Thirteen engineers.**

**Nine draughtsmen.**

**One construction manager.**

**One construction supervisor.**

**Three administration staff.**

**Member of ACENZ.**

Constructure thrives in a collaborative team environment where we develop and challenge our staff's skills and creativity to deliver leading edge structural solutions.

SPECIALISING IN

**Structural design and preparation of detailed working drawings and specifications.**

**Soil-bearing investigations and reporting.**

**Structural inspections during the construction phase.**

**Representing the client's interest at every step.**

**Working closely with the builder and other consultants.**

*Our work speaks  
for itself*



RESIDENTIAL

## Great Barrier House

**LOCATION** Great Barrier Island.  
Studio 2 Architects (Paul Clarke).

**CHALLENGES** Constructing on varying ground conditions where firm ground gives way to sand-blown dunes and sourcing large volumes of top-quality concrete to a remote location.

**SOLUTION** Careful consideration of where to use piles to ensure an economic build and advising the client when purchasing a mobile concrete batching plant for the project.



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## Tawharanui House

**LOCATION** Tawharanui.  
RTA Architects.

**CHALLENGES** Poor ground conditions for the lower building and a high flood level.

**SOLUTION** Driven piles to support the foundations, including the car port slab.



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## Remuera House

**LOCATION** Auckland  
Studio 2 Architects (Paul Clarke).

**CHALLENGES** Renovating an existing house to provide a garage basement and a feature first floor master bedroom cantilever.

**SOLUTION** Structural steel frame to replace the existing timber sub-floor structure to span the new garage space. Steel frame hidden within the first floor and roof depth to form the cantilever floor.



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## McLean House

**LOCATION** Shotover River, Queenstown  
Thom Craig Architects.

**CHALLENGES** High-end intricate architectural features demanded detailed structural design.

**SOLUTION** Close working relationship with the architect resulted in structural solutions that maintained the integrity of the architectural design.





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## Stanley House

**LOCATION** Christchurch.

Weir Walker Architecture.

**CHALLENGES** Unusually large cantilever concrete panels perpendicular to the wall panels below to form first-floor master bedroom.

**SOLUTION** Intricate hidden structure design to support the weight of the top floor.



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## Smith House

**LOCATION** Christchurch.  
Matz Architects.

**CHALLENGES** Earthquake prone TC2/  
TC3 land piled foundations  
with large, heavy two-storey  
structure.

**SOLUTION** Combined steel and concrete  
panel structure to provide  
required strength while  
maintaining the vision of the  
architect.



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## Mason Smeele House

LOCATION Wanaka.

Thom Craig Architects.

CHALLENGES Large curved roof cantilever created unusual engineering challenges because of the limited number of weight-bearing points to support the roof.

SOLUTION Creating an intricate steel structure to support the curved roof while protecting the aesthetic of the architectural design.





## Cory Bedford

- 2008** Principal  
CONSTRUCTURE LIMITED – *Christchurch.*
- 2007** Senior Structural Engineer  
O’LOUGHLIN TAYLOR SPENCE – *Christchurch.*
- 2004–2006** Senior Structural Engineer  
STRUCTEX – *Christchurch.*
- 2002–2004** Structural Engineer  
CITY SOLUTIONS – *Christchurch.*
- 2001–2002** Structural Engineer  
MERITEC LIMITED – *Wellington.*
- 2000** Structural Engineer  
CHAPMAN SANDERS – *Wellington.*
- 1996–1999** Site Engineer  
TAYLOR WOODROW  
–*London Bridge Station, Jubilee Line Extension, London.*  
–*Cardiff Millennium Stadium, UK.*
- ACADEMIC & PROFESSIONAL INVOLVEMENT** BEng(HONS), CMEngNZ, CPEng, IntPE(NZ).  
Former ACENZ local area representative for Canterbury & West Coast.  
Waimairi School Board of Trustees Chair.



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Constructure is proud of its single-minded focus on the client's needs.

We deliver what we say we will deliver and deliver it on time. Engineering may be a science but understanding the customer is an art.



## James Knight

- 2015–PRESENT** Auckland Director – Pincipal Structural Engineer.  
CONSTRUCTURE AUCKLAND LIMITED – *Auckland.*
- 2011–2015** Associate – Senior Structural Engineer.  
HARRISON GRIERSON CONSULTANTS LIMITED – *Auckland.*
- 2008–2011** Structural Engineer  
BECA CARTER HOLLINGS & FERNER – *Auckland.*
- 2007–2008** Structural Engineer  
BWB CONSULTING LIMITED – *Leeds, UK.*
- 2005–2006** Structural Engineer  
BIRKETT STEPHENS COLEMAN PARTNERSHIP (BSC.P) –  
*Leeds, UK.*
- ACADEMIC & PROFESSIONAL INVOLVEMENT** BEng(HONS), CMEngNZ, CPEng, IntPE(NZ).



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— CONTACT

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