Concrete.
FUTUREPROOF
your build™



WHY CONCRETE.

FUTUREPROOF

01 CONCRETE. DESIGN AND BUILD WITH CONFIDENCE

Art Gallery of Modern Art (GOMA), QLD
Architects: Robin Gibson and Partners Architects
Photography - Kbgo

Concrete is the world's most popular construction material. It allows you to design and build with complete confidence.

It is used everywhere from high-rise towers, residential houses, and commercial buildings to infrastructure projects such as solar, wind and hydro power generation, tunnels, dams, airports, highways, and roads.

Across all aspects of construction, concrete allows architects and engineers to design and plan, quantity surveyors to estimate and cost, builders to construct and regulators to ensure compliance with confidence.

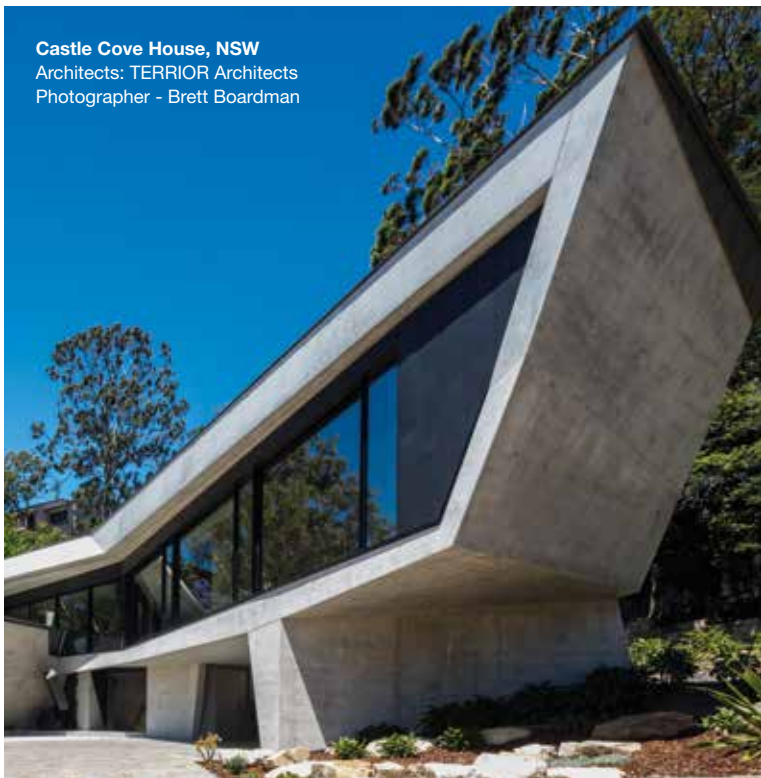
Concrete is fluid and can be engineered and formed to your exact design and then sets strong for life.

Concrete helps reduce your construction risk because it is locally produced, easy to obtain and uses local skills. Those involved in construction are experienced with concrete providing added confidence for efficient design, engineering, scheduling, placement, and rapid project completion with minimal on-site wastage and future recycling potential.

Concrete's consistent performance means it is easy to meet standards and codes and provides peace-of-mind, whether your project calls for concrete elements that can be cast in-situ or pre-cast in a factory environment.

Concrete continues to evolve with new applications including lower carbon concrete, 3D printing, pollution eating, self-healing concretes that can repair cracks, translucent concrete that allows light to pass through, pervious concrete for maintaining the water table, flexible concretes to withstand greater bending forces and ultra-high strength concretes for the tallest of buildings.

With concrete, you can be confident you are working with one of the world's most reliable, versatile, and trusted construction materials



Castle Cove House, NSW
Architects: TERRIOR Architects
Photographer - Brett Boardman

CONCRETE. SUSTAINABLE FOR LIFE 02

Phillip Island House, VIC
Photographer - John Gollings

Concrete is sustainable now and into the future. Across its whole life cycle, concrete is a remarkably sustainable construction material from the sourcing of raw materials, the design and operation of buildings and to end-of-life re-use or recycling.

Concrete is locally manufactured which supports the local industry, community, and employment and is highly efficient with minimal onsite waste which reduces the impact of transportation.

Concrete is 100% recyclable and uses recycled materials in manufacture. It naturally absorbs carbon from the atmosphere throughout its life, with Global studies demonstrating up to one third of the original CO2 emissions re-absorbed.

Gordon River Dam, TAS
Hydro-Electric Commission

Concrete is leading the charge to a better future through the development of a global roadmap for all concrete to be carbon neutral by 2050.

Concrete is increasingly manufactured utilising materials that would otherwise go to waste, such as fly ash from electricity generation and blast furnace slag from steel making, all helping to reduce carbon emissions and waste. Recycled aggregates are also used where feasible, reducing the demand for natural resources.

Because of its excellent thermal mass, Concrete buildings provide more stable and comfortable internal temperatures resulting in reduced energy costs and emissions over the life of your structure.

Concrete's natural durability, aesthetic, thermal and acoustic properties can reduce the need for additional finishing such as floor coverings, wall linings, insulation, and fire protection. This saves on construction time and cost.

Concrete buildings can be easily remodelled and re-purposed for alternative uses resulting in a reduced environmental impact and cost compared to full demolition and rebuilding.

When used in city environments, the heat reflecting properties of concrete paving and external walls can reduce the urban heat island effect, providing cooler urban environments.

Concrete is a sustainable material that is good to live with for its entire life.

03 CONCRETE. SOLID, SAFE AND LASTING

Forrestfield Airport Link, WA
Joint Venture: Salini Impregilo-NRW

With Concrete you are Futureproofing Your Build and Futureproofing Australia.

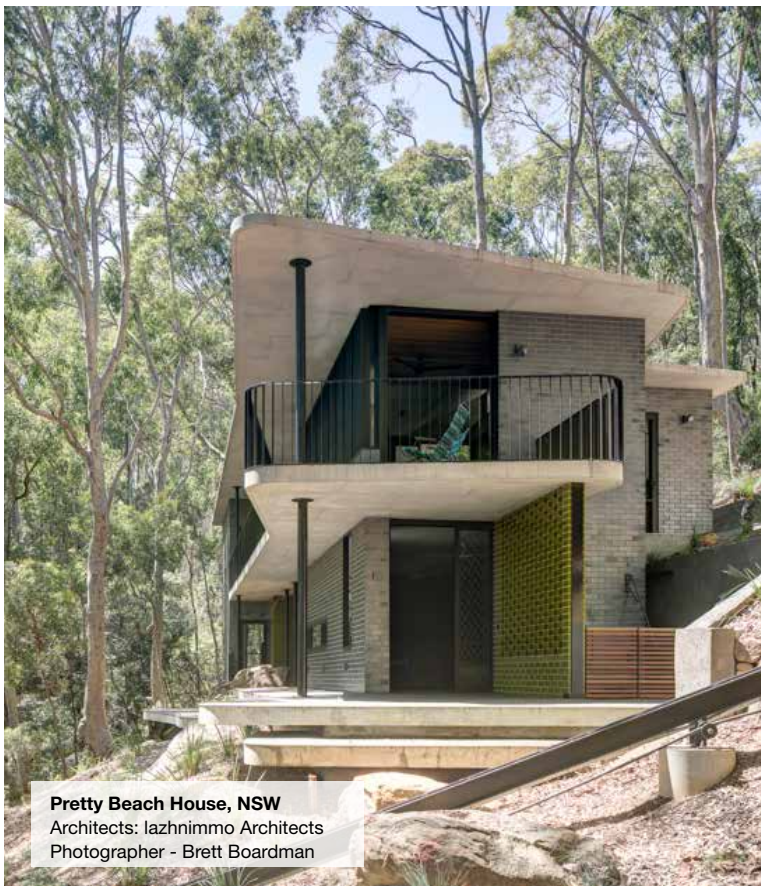
Concrete is Australia's locally manufactured, proven, durable and resilient construction material that just gets stronger over time. It is trusted to build the places in which we live, work and play and to construct the infrastructure that we rely on now and into the future.

Importantly, concrete is a safe and secure construction choice. Concrete is futureproof against natural deterioration, extremes of weather and climate, the ravages of fires, floods, and cyclones.

Concrete offers excellent fire resistance, it does not burn or give off toxic fumes and when exposed to fire has a slow rate of heat transfer, protecting the building.

So durable and sound is a concrete building, that when it has served its original purpose, it can be adapted for re-use and be re-purposed to begin its life over again.

With concrete you know you are building something that is safe and solid, not only for today but for future generations to come.



Pretty Beach House, NSW
Architects: Iazhnimmo Architects
Photographer - Brett Boardman

Front page image credits (from left to right)

Central Park One, NSW, Joint Venture: Frasers Property and Sekisui House. **National Portrait Gallery, ACT,** Johnson Pilton Walker Architects, Brett Boardman Photography. **Forrestfield Airport Link, WA** Joint Venture: Salini Impregilo-NRW

www.futureproofwithconcrete.com.au

Concrete. FUTUREPROOF your build™

 |