



Render of Te Manawataki o Te Papa. Image: Tauranga City Council



**Client:**  
Rollforming Services

**Project:**  
Tauranga Library  
Project

**Location:**  
Tauranga, NZ

**Products:**  
X-TENDA™ 3600

Tauranga's new Library and Community Hub is more than just a building - it's a bold vision for the future of sustainable construction. Designed to meet a world-class six Green Star rating, this project pushes the boundaries of efficiency and eco-conscious design. At its core is cutting-edge telescopic framing, manufactured on the **X-TENDA™ 3600**, a game-changing innovation that minimises waste, streamlines construction, and sets a new benchmark for sustainability. Here's how this project is redefining the way we build.

### The Project: Tauranga's commitment to a greener future

Part of the \$400 million Tauranga Civic Precinct redevelopment, Te Manawataki o Te Papa, the City Council's new Library and Community Hub is a three-story, multi-functional space. It features a café, flexible community areas, technology innovation zones, and meeting rooms, all with panoramic views of Tauranga Harbour.

At the heart of this project is a commitment to sustainable construction and optimising every aspect to reduce the carbon impact, which is one reason why the team chose to use telescopic framing – more than 12.8km of steel framing in total.

### The Solution: Howick's X-TENDA™ 3600 and telescopic framing

Produced on the X-TENDA™ 3600, telescopic framing is a game-changing solution for streamlined, sustainable construction.



With traditional timber stick framing, 20% of the wood ends up in landfills as offcuts. Even conventional stud-and-track framing requires constant onsite remeasuring and cutting. Telescopic framing overcomes all this waste by adjusting vertically and horizontally to fit a space perfectly.

It's a smart solution that has been used in award-winning projects around the world to save contractors time, labour and materials.





Manufactured in sequence to match the project's construction schedule and delivered flat-packed, each drawing set comes with a unique QR code that links directly to a web-based 3D model viewer. This QR linked to a 3D model viewer that provided everyone onsite with accurate design information on where each component should go and how it was to be installed.

## Key benefits of Howick's X-TENDA™ 3600 telescopic framing include:

- Waste reduction: Produces up to 10 times less waste, compared with traditional timber framing.
- Lightweight and efficient: Being 60% lighter, minimises transport emissions and requires less labour for installation.
- Precision and flexibility: Perfect for complex designs, telescopic framing can be used to frame up irregular spaces, and even create curved walls.
- Streamlined construction: Pre-cut and pre-drilled frames accelerate timelines, cutting labour requirements by up to 50%.

The Tauranga Library project demonstrates how Howick's X-TENDA™ 3600 telescopic framing supports a circular economy. With panels that are nearly 100% recyclable at the end of their life cycle and producing almost zero onsite waste, these frames are contributing to the project's six Green Star goals – the benchmark for sustainability, ensuring excellence in energy efficiency, waste reduction, and material sustainability.

## A model for future construction

The Tauranga Library and Community Hub is a shining example of what's possible when cutting-edge technology meets sustainable design. The versatility of Howick's X-TENDA™ 3600 telescopic framing system is proving that smarter, greener, and faster construction is not tomorrow's goal - it's today's reality.

For more information on Howick's telescopic framing technology and X-TENDA™ 3600, and how it can transform your next project, get in touch with our team today.

# HOWICK

## ABOUT HOWICK LTD

Howick Ltd manufactures precision roll-forming machines and technology for light steel framing.

For nearly 50 years we have been innovating in this space, creating systems and machines that are now employed by construction businesses in over 80 countries the world over. We are proud of the formidable reputation we have built up over that time for performance, reliability and service.

Unique in our sector, Howick steel roll-forming systems are 100% manufactured at our plant in Auckland, with top quality New Zealand made componentry either made at the Howick factory or sourced locally.

**FOR MORE INFO OR QUOTES CONTACT**

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