



We set the standard. Since 1977

FORMWORK

ARCHITECTURALLY DESIGNED CONCRETE



Formwork

CONCRETE AS ART

SERVICES

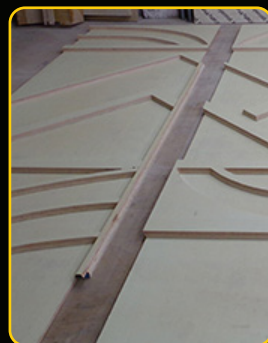
Together with our state-of-the-art CNC machining technology, integrated design and production team and our revolutionary mould materials we are able to tackle complex concrete feature works. Intricate designs become reality with the aid of sophisticated 3D modelling software. And with specialist expertise in Master Tool, Form Liner and Formwork manufacturing, we are supremely confident about delivering solutions fast and efficiently – no matter how small or large the project.

Collaborative involvement underpins our philosophy. We prefer to work closely with clients, contractors and other stakeholders within projects – helping to develop solutions to tricky problems. In many cases the way the formwork is designed and put together can simplify the process. Translating imaginative concrete design into reality often requires imaginative engineering – something we thrive on.



"The mother art is architecture. Without an architecture of our own we have no soul of our own civilization."

– Frank Lloyd Wright



CAPABILITIES

It all starts with an idea, a creative concept, or a problem to solve – where via our expert team, specialised 3D CAD modelling software, revolutionary moulding materials, including our trademarked moulding product Caro-C, the hero can emerge – the malleable yet bold and sturdy – architectural concrete.

Many of our projects are those that whilst also providing an important function (noise barriers, bridge panels, building facades), are often culturally connected, intricate patterns and serve as a reminder that concrete holds its place firmly as providing both form and function – concrete as art is what we thrive on.

We utilise a variety of moulding materials, including varying grades of polystyrene, high density foams, form ply, standard ply, oversized MDF board, fibreglass, polyurethane rubber, silicone and our very own custom made product, CaroC – this material allows high quality surface finish without the need for the time consuming sealing and sanding process. Caro-C can be cast as required block sizes, often eliminating the need for unsightly joins. It has been tested to 50 castings without degradation and can be repaired if chipped or broken.

Caro-C is our go-to material when forming our master tools for urethane rubber liners or for straight to concrete moulding that have conducive pattern designs.

We have completed a variety of projects that will illustrate our extensive capabilities, from intricate building restoration to a footbridge in the heart of Auckland City. Get in touch to see how we can assist you with your next project.



OUR WORK

LARGE SCALE FAÇADE PANELS

CUSTOMER PRECINCT PROPERTIES

PROJECT LARGE SCALE W11 FAÇADE PANELS

A series of two large panel designs with an organic vibe. Each panel measuring approximately 3.6m by 4.9m with a curved rib effective and leaf fauna effect. In this case the pattern was a positive relief with gentle curves giving the finished result a fantastic stand out effect. 18 panels in total stretching up one side of the building making this structure truly stand out.

Due to the moderate number of castings and the conducive relief of the pattern, Jackson Formwork were able to supply moulds from our Caro-C material. This enabled a top class finish whilst keeping costs reigned in.

Each mould was supplied in three parts for handling whilst being able to disguise all joins due to the high level of accuracy achievable from our in-house CNC machining process.



ELLERSLIE NOISE WALLS

CUSTOMER NZTA

PROJECT IWI INSPIRED MOTORWAY NOISE WALLS - TUATARA AND TIKI PATTERN

NZTA needed an effective solution for this almost 1km stretch of Auckland's motorway. Jackson was consulted to supply two of the three patterns involved, working alongside Wilco Precast, White Landscapes and Iwi artist Johnson Witehira.

With the large number of panels required, Jackson's polyurethane rubber was the best choice to allow for high re-use with deep interlocking pattern details.

The Tiki in particular required deep recesses to accentuate its proud stance and make it stand out as a central part of the overall design. Using a staggered mould making methodology to reduce costs and speed up manufacturing, simplicity was required to make these moulds viable.

Weighing in at approximately 700kg, this was a formidable, flexible mould that enabled safe release of each completed panel.



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