

ENGINEERING

Project: Design, Construction and Assembly of an Industrial Building
Client: Paterson Family Trust

Scope:-

Engineering and preparation of construction drawings;
Fabrication of all structural steel;
Assembly of building including all steelwork and sheeting.

Specific Challenges:-

- Cost and Time Constrains.
- Height safety risk during construction.

Solution:-

Using contemporary design software significant effort was applied upfront with the aim of reducing material costs and required labour inputs by:

- Optimising the application of NC cutting of parts
- Laser etch marking of components for ease of parts identification during fabrication;
- Tailoring the design to minimise welding and labour inputs during fabrication.

A modular construction method was adopted whereby the complete roof section was constructed as one module at ground level. This section was then raised into place using a multiple crane lift. The method allowed rapid construction and negated the requirement for personnel to construct and sheet the roof at height



72-74 Swallow Road
Edmonton, 4869
Queensland

Phone: 07 4045 3433

Fax: 07 4045 3477

Email: engineering@maxitool.com.au

Certainty in Safety – Certainty in Quality – Certainty in Value