



**Ergon Energy Corporation Limited**

# **Specification for Prototyping of Steel Lattice Structures**

This material is made available on the basis that it may be necessary for a Registered Professional Engineer of Queensland (RPEQ) to undertake or oversee the engineering services to meet statutory obligations.

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## Contents

1. Purpose and Scope.....	1
2. References.....	1
3. Definitions, Acronyms, and Abbreviations.....	1
4. Security.....	1
5. Safety, Environmental and Ergonomic Considerations .....	1
6. General Requirements.....	1
7. Modification of Prototype.....	1

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## 1. Purpose and Scope

This section provides for the trial assembly of prototype tower structures to verify detail design and fabrication before mass production and/or erection. The Schedule of Rates for Prototyping of Structures is deemed to cover all costs associated with this section.

## 2. References

Nil

## 3. Definitions, Acronyms, and Abbreviations

Nil

## 4. Security

Nil

## 5. Safety, Environmental and Ergonomic Considerations

As per Ergon Energy's Safety, Environmental & Ergonomic Policies.

## 6. General Requirements

As required by the Superintendent, a prototype tower of each tower type comprising the maximum height to be used on the project, together with all body and leg extension combinations as required in the Schedules shall be assembled at the Contractor's Workshop. Production run tower fabrication shall not commence until the Superintendent has approved such prototypes.

All parts of each structure type are to be trial assembled in the horizontal attitude. The structure is to be carefully supported on blocks to ensure that the structure is not subjected to undue bending which may distort the fit of the various members and plates. As far as is practicable, the trial assembly shall form the complete structure.

If it is necessary to trial assemble portions only, then the number of portions shall be kept to a minimum and shall be complete with all secondary bracing and ancillary items such as climbing aids and rest platforms. Each sub-assembly is to be positioned and orientated close to its mating sub-assembly such that a clear appreciation of the whole concept can be obtained. All fasteners (nuts, bolts, etc.) shall be adequately tightened to ensure that the various members are in close contact and all movements between adjacent members and/or fixings has been eliminated.

The Contractor shall give the Superintendent two weeks notice of the availability of prototype towers for inspection.

## 7. Modification of Prototype

Approval by the Superintendent of drawings for prototype assembly of tower structures shall not be taken as approval for subsequent production purposes. In particular, tower fabrication details required under Section 3 of this Specification shall be checked for compliance in the assembled prototype tower and any corrections made to the drawings and the subsequent tower fabrication.

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The Superintendent may direct changes to the tower details and such changes shall be incorporated into the relevant drawings and the constructed towers. Provided the changes are not outside the scope of this Specification, they shall be effected without additional cost to the Principal.

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