



## 0381 Structural timber

Document version: 2.0

Published date: 30/11/2022

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# 00 Design Principles

## 0.01 Main considerations

It is a requirement to undertake the [00 PLANNING AND DESIGN/0001R - DESIGN REFERENCE](#) and [GLOSSARY OF TERMS](#) information into all aspects of design, detailing and delivery when developing the content here within. Clear demonstration of adherence to these requirements is part of the services and will be called upon at key points in the project and during at the discretion of the Department of Education (DoE).

## Specification

GUIDE NOTE: Refer to [01 GENERAL/0185 TIMBER PRODUCTS, FINISHES & TREATMENT](#) and [01 GENERAL/0184 TERMITE MANAGEMENT](#)

## 01 General

As per current NATSPEC except as follows:

### 1.1 Documentation

Drawings should be prepared for the structure and should:

- Show clearly all timber sizes, stress grades, moisture contents and connections
- Show the connection of timber assemblies to the supporting building structure, including the requirements to resist wind uplift and earthquake loads
- Show all bracing elements
- Give careful consideration within the design to flexural deflection of timber members and trusses, both instantaneous and long term.

### 1.6 Submissions

GUIDE NOTE: Add the following to subclause “Materials” nominated in NATSPEC Building Template/Work section

## Materials

Timber to be Certified: All timbers

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Certification to include: Species (all timbers)

Inspection Authority: State Forests of NSW

## 02 Products

As per current NATSPEC except as follows:

### 2.1 Timber

GUIDE NOTE: Refer to [01 GENERAL/0185 TIMBER PRODUCTS, FINISHES & TREATMENT](#) for termite resistance, preservative treatments and the use of Australian indigenous species

#### Structural timber

GUIDE NOTE: Add the following to subclause “Structural Timber” nominated in NATSPEC Building Template

Natural durability classification to AS 5604 Table A1 (minimum): Durability class 2, or preservative treated timber of equivalent durability.

#### Roof Trusses

Design exposed bottom chords of roof trusses to carry a 1kN hanging load at any position. Where appropriate design roof trusses to also stabilise the tops of walls.

#### Steel Fasteners

Provide corrosion protection for steel fasteners as specified in subsection STRUCTURAL STEELWORK of this Section.

## 03 Execution

As per current NATSPEC except as follows:

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## 3.3 Pole Structures

GUIDE NOTE: Not used in DoE Projects.

## 04 Selections

As per current NATSPEC.