

Development Act 1993  
Minister's Schedule 5 roof framing checklist

Development Application number:	
Applicant:	
Site address:	

<b>Part 1 – Process and communication</b>
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**Software**

- ☐ Structural design software in accordance with Minister's Specification SA A2.2
- ☐ Check that the program is being used within any limitations

**Structural design report**

- ☐ Name and signature of person producing structural design report from the program
- ☐ Check design inputs for loading conditions
- ☐ Check the suitable selection and application of any discretionary parameters in relevant Australian Standards
- ☐ Check that the person who produced and signed the report has been trained in the use of the software program

**Truss details**

- ☐ Elevation of each truss, showing dimensions, layout of members, connections, support points, and web bracing (if any)
- ☐ Web tie / web brace details
- ☐ Details of trusses or truss elements required to be laminated together (if any), including the fasteners pattern

**Layout plan(s)**

- ☐ Separate roof frame, wall frame, floor frame layouts
- ☐ Name and signature of person producing layout plan – on each layout Plan
- ☐ All tie-downs, bracing and truss-to-truss connections, and critical load paths shown
- ☐ Check for girder trusses and any load transfer points to supporting framing through the structure
- ☐ Check that the person who produced and signed the layout plan(s) has been trained in the use of the software program
- ☐ If the layout was not produced by the nailplate supplier's software, check that the layout is signed by a practising structural engineer

**Hybrid roof design** (combination of roof trusses and conventional framing)

- ☐ Do roof trusses or conventional framing rely on each other for support or stability?  
Y ☐ N ☐ if Yes ...
- ☐ Has the software program accounted for the loads and connections?  
Y ☐ N ☐ if No ...
- ☐ Design and layout certified by a structural engineer

**Additions to buildings**

- ☐ Does the new roof rely on the existing structure for support?  
Y ☐ N ☐ if Yes ...
- ☐ Evidence of suitability of the existing structure to support the new roof provided

## Part 2 – Truss / framing layout

### The roof layout must include the following items:

(Cross off all items Not Applicable, details to be specified on drawings for all remaining items)

- ☐ Truss locations: spans, station for truncated girder trusses
- ☐ Girder truss position and girder boot details
- ☐ Top chord bracing details: layout and fixing
- ☐ Top chord restraint: purlin/batten fixing, spacing, purlin splice details
- ☐ Intermediate top chord ties (valley truss – sheet roof only)
- ☐ Bottom chord restraint (spacing and size of restraint)
- ☐ Bottom chord restraint bracing: suspended or no ceiling
- ☐ Hip end framing: loose timber or jack truss
- ☐ Tie-down location/details
- ☐ Location of special loads: solar heating, air con., HWS, <sup>1</sup>fire service, other
- ☐ Overhangs: eave detail (supported, not supported) structural or non-structural fascia, verge detail
- ☐ Gable end truss supported on end wall or free spanning, verandah, pergola.
- ☐ Truss connections: hip ends, girder trusses, valley trusses, non load-bearing walls
- ☐ Bearing width see AS4440-2004, Appendix B Section B4 (p.56.)
- ☐ Internal support/tie-down
- ☐ Trusses or truss elements required to be laminated together on site (eg double girder trusses, chord stiffeners, etc) shall be shown on the roof layout plan
- ☐ Supporting structure: separate wall frame layout indicating locations and details of support for concentrated loads such as girder trusses or beams

## Part 3 – Design criteria

As shown on truss engineering data sheets submitted, with cover sheet signed and dated by an appropriate person

Building Type:		Residential		Does the scope of the truss design method include design of commercial / post-disaster buildings?
		Commercial		
		Post-disaster		

Design Criteria	Unit	Specified	Accepted
Roofing	Material or kg/m <sup>2</sup>		
Top Chord Restraint Spacing	mm		
Ceiling	Material or kg/m <sup>2</sup>		
Ceiling batten or direct fix	Batten or Direct		
Bottom chord design restraint spacing	mm		

<sup>1</sup> If commercial or post-disaster building, check that the scope of the truss design method includes design of commercial / post disaster buildings as appropriate.

Design Criteria	Unit	Specified	Accepted
Wind classification	N1 to N4, C1 to C3		
Internal Pressure co-efficient	(C <sub>pi</sub> ) = 0.2 or 0.7		
Truss Spacing	mm		
Roof Pitch	degrees		
Bottom Chord Pitch (if applicable)	degrees		
Truss Overhang	mm		
Eaves supported by wall structure	Yes or No		
Structural Fascia	Yes or No		
Special Conditions (e.g. trusses over swimming pool or in a corrosive environment)			
Girder Trusses – Specify type of lateral restraint & fixing (eg. battens/purlins or other)			

Special Loads:	Unit	Specified	Accepted
Water Tank	Litres or kg		
Solar System	kg		
Air-Conditioning	Kg		
Others	Kg		

The truss design and documentation submitted for provisional building rules consent have been checked against the items contained in this checklist, and accepted by:

Signature: .....

Name: .....

Date: .....