

(The Code clause and table references given below apply to Part 2 and Part 3 unless specifically noted)

Background

Some Code users are reported to be applying AS 4440 'Installation of nail plated timber trusses', as a basis for determining roof truss tie-down and avoiding the minimum nominal connection requirements specified for roof trusses in **Table 9.4** of AS 1684 Part 2 and Part 3.

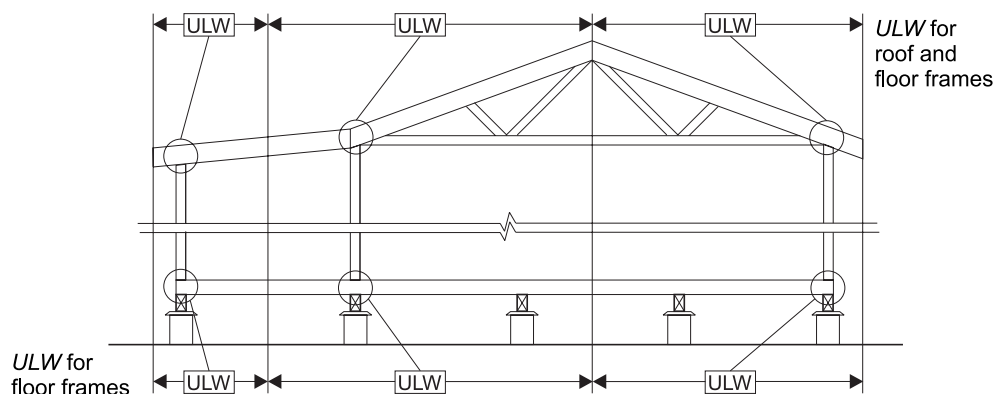
Requirements for Truss Tie-down

AS 4440 Clause 3.5 states that "the requirements for fixing trusses to the supporting structures shall be in accordance with the approved specifications."

This clause clearly indicates that prescriptive tie-down requirements for roof trusses are beyond the scope of AS 4440 and that details for tie-down have to be determined from other sources.

AS 1684 Part 2 and Part 3 on the other hand, provides procedures and prescriptive tie-down details including the minimum nominal fixings for roof trusses where there is no net uplift.

The minimum nominal connections given in **Table 9.4** of one framing anchor or a strap plus skew nails are generally in accordance with the minimum connections recommended by the truss plate manufacturers. Unless alternative connection details are provided and certified by the truss plate manufacturer or a structural engineer, then the requirements of AS 1684 shall apply for the connection and tie-down of roof trusses.



ROOF UPLIFT LOAD WIDTH (ULW) FOR WIND



WoodSolutions.com.au. The knowledge building website.

If you're looking to design or build a commercial, residential or industrial project - discover

WoodSolutions, the website that's designed and constructed for you. WoodSolutions is a world-leading initiative and a one stop source for a huge range of free, non-proprietary information, including:

- Technical Design Guides
- case studies
- workplace technical presentations
- conferences and seminars

- species information
- performance data
- fire information
- durability ratings
- fixings and finishes
- Standards and Codes, and much more.

Developed by the Australian forest and wood products industry, WoodSolutions contains information from industry bodies, manufacturers and suppliers. Visit the WoodSolutions website today and build your knowledge.

Disclaimer : WoodSolutions is resourced by Forest and Wood Products Australia Limited (FWPA). Whilst all care has been taken to ensure the accuracy of the information contained in this publication, Forest and Wood Products Australia Limited (FWPA) and other contributors disclaim, to the full extent permitted by law, all and any liability for any damage or loss, whether direct or indirect, special or consequential, arising directly or indirectly out of use of or reliance on this guide, whether as a result of negligence or otherwise.