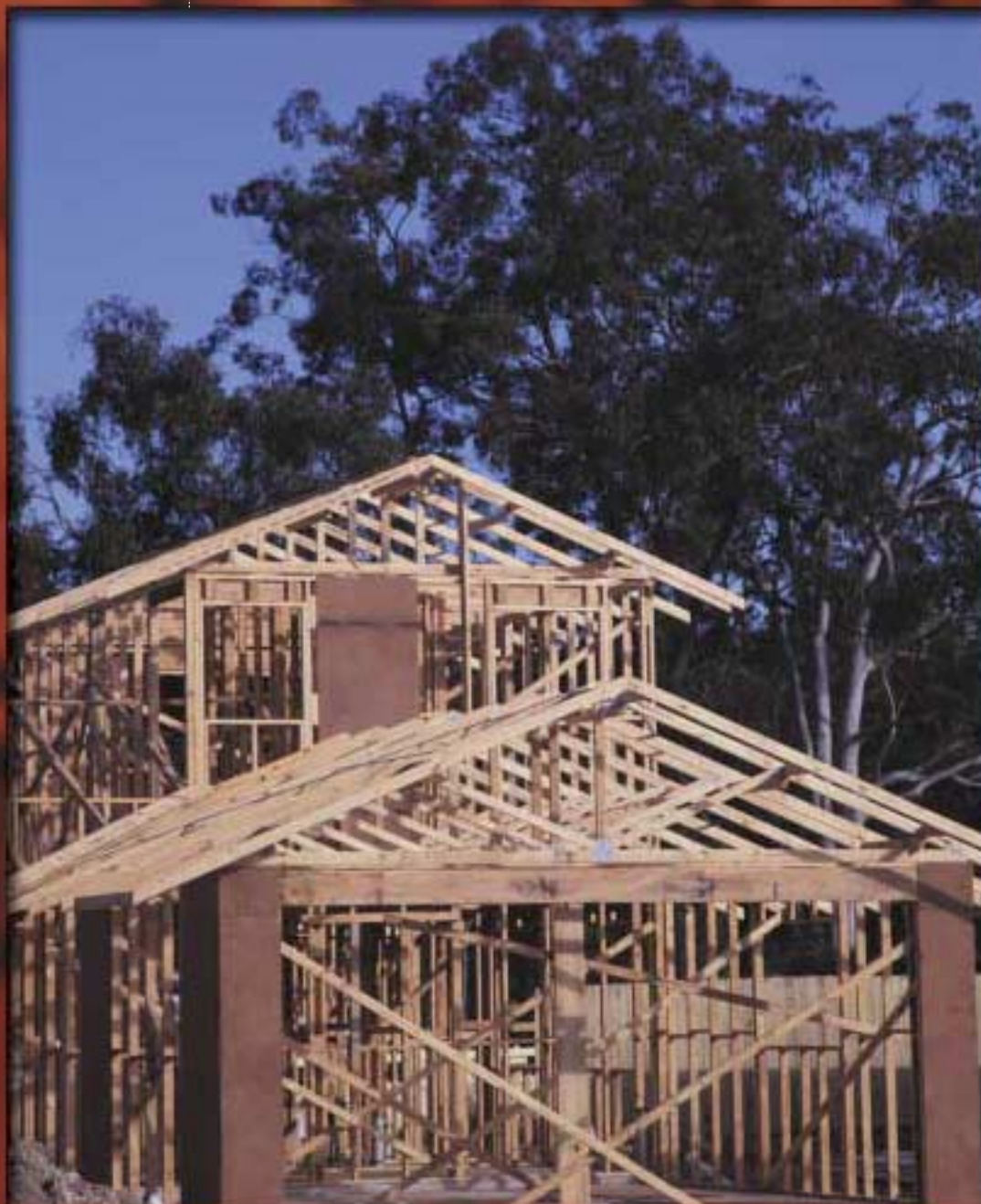


AS 1684.1—1999 *Residential timber-framed construction*



Part 1

# Design criteria

*(Incorporating Amendment No.1)*



Standards Australia

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Australian Timber Importers' Federation  
Building Research Association of New Zealand  
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Curtin University of Technology  
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**AS 1684.1—1999**  
(Incorporating Amendment No. 1)

**Australian Standard™**

**Residential timber-framed construction**  
**Part 1: Design criteria**

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## PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TM/1, Timber Structures.

*This Standard incorporates Amendment No. 1 (February 2002). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure, or part thereof affected.*

This Standard is the result of a consensus of representatives on the Joint Committee that it be produced as an Australian Standard.

The objective of this Standard is to provide users with the design methods, assumptions and other design criteria, which have been used in the preparation of the Span Tables, uplift forces and racking pressures contained within AS 1684.2, AS 1684.3 and AS 1684.4.

Continued development of timber framing systems and the need to cater for a widening variety of materials and design conditions have led to a total revision of structural framing design. These developments include —

- (a) provision for limit state design methods;
- (b) revised/new structural grades for timber;
- (c) provisions catering for open plan living—larger spans, wider openings and bigger rooms, which need a more rational approach to bracing design;
- (d) special ‘engineered’ and fabricated timber products;
- (e) recognition of a wider range of high wind and cyclonic design; and
- (f) computer-aided design software for member sizes, bracing and tie-down.

This Standard is a companion publication to the following:

AS

1684	Residential timber-framed construction
1684.2	Part 2 Non-cyclonic areas
1684.3	Part 3 Cyclonic areas
1684.4	Part 4 Simplified—Non-cyclonic areas

The term ‘normative’ has been used in this Standard to define the application of the appendix to which it applies, A ‘normative’ appendix is an integral part of a Standard.

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