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AS 1530.8.1:2018
(Incorporating Amendment No. 1)

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Methods for fire tests on building materials, components and structures

Part 8.1: Tests on elements of construction for buildings exposed to simulated bushfire attack — Radiant heat and small flaming sources

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Australasian Fire and Emergency Service Authorities Council
Australian Building Codes Board
Australian Industry Group
Australian Institute of Building
AWTA Product Testing
Building Research Association of New Zealand
Bureau of Steel Manufacturers of Australia
CSIRO
Engineers Australia
Fire Protection Association Australia
Fire Protection Association New Zealand
Forest and Wood Products Australia
Insulated Panel Council Australasia
Insulation Australasia
Insurance Council of Australia
Plastics and Chemicals Industries Association
Property Council of Australia
Society of Fire Protection Engineers

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Methods for fire tests on building materials, components and structures

Part 8.1: Tests on elements of construction for buildings exposed to simulated bushfire attack — Radiant heat and small flaming sources

Originated as AS 1530.8.1—2007 Second edition AS 1530.8.1:2018.
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Preface

General

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee FP-018, Fire Safety, to supersede AS 1530.8.1-2007.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

This Standard incorporates Amendment No. 1 (June 2024). The start and end of changes introduced by the Amendment are indicated in the text by tags including the Amendment number 1.

The major changes in this edition are as follows:

(a) Allowance for the use of stainless steel radiant plates that have more uniform radiation distribution.

(b) Improved specification of test and specimen configurations in regard to weepholes in walls, skylights in roof construction and penetrations.

(c) Inclusion of provisions for the determination of the impact of weathering of exposed timber construction treated with chemicals or coatings that improve its fire performance.

(d) Inclusion of roof valley details for roof construction.

(e) Clarification of the applicability of results for base of wall details.

(f) Inclusion of test procedure for windows with screens and shutters.

(g) Inclusion of alternate crib design based on original debris research and industry testing.

(h) Clarification of reporting requirements to require observations relate to failure criteria and be less subjective.

(i) A general review of clarity, intent and specification of all testing requirements and in particular through gap criteria, roof pitch, crib location, heat flux gauge location.

The AS 1530.8 series comprises this Standard and AS 1530.8.2, *Methods for fire tests on building materials, components and structures*, Part 8.2: *Tests on elements of construction for buildings exposed to simulated bushfire attack—Large flaming sources*.

The terms 'normative' and 'informative' have been used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

Figures which are referenced in mandatory terms are deemed to be included in the requirements of this Standard.

This Standard incorporates commentary on some clauses. The commentary directly follows the relevant clause, is designated by 'C' preceding the clause number and is printed in italics in a panel. The commentary is for information only and does not need to be followed for conformance with this Standard.

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