

Australian Standard[®]

**Mineral wool thermal insulation—
Batt and blanket**

This Australian Standard was prepared by Committee BD/58, Thermal Performance and Insulation of Dwellings. It was approved on behalf of the Council of Standards Australia on 21 July 1989 and published on 9 February 1990.

The following interests are represented on Committee BD/58:

Acceptable Standards of Construction Committee, New South Wales
Aluminium Development Council
Association of Municipal Electricity Authorities, Victoria
Australian Cellulose Insulation Manufacturers' Association
Australian Federation of Consumer Organizations
Australian Institute of Building
Australian Institute of Refrigeration, Air Conditioning and Heating
Australian Uniform Building Regulations Coordinating Council
Business and Consumer Affairs, New South Wales
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Construction and Housing Association, Australia
Department of Administrative Services—Australian Construction Services
Department of Industry, Technology and Resources, Victoria
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Fibreglass and Rockwool Insulation Manufacturers' Association of Australia
Hydro-Electric Commission, Tasmania
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PREFACE

This Standard was prepared by the Standards Australia Committee on Thermal Performance and Insulation of Dwellings and is one of a series of Standards relating to thermal insulating materials.

A new Standard dealing with the methods of installing this type of insulating material in dwellings is in course of preparation. Recommended levels of thermal resistance for the use of this material are set out in the AS 2627 series of which AS 2627.1, *Thermal insulation of dwellings—Design guide, Part 1: Thermal insulation of roof/ceiling in dwellings which require heating*, has been published.

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STANDARDS AUSTRALIA

Australian Standard

Mineral wool thermal insulation—Batt and blanket

SECTION 1. SCOPE AND GENERAL

1.1 SCOPE. This Standard specifies the composition and physical requirements of mineral wool thermal insulation in both batt and blanket form.

The products described in this Standard are intended for the thermal insulation of buildings for above-ceiling application, wall cavities and under suspended floors.

NOTE: Information on test specimen selection for determination of thermal resistance is given in Appendix A.

1.2 APPLICATION. This Standard is intended to assist—

- (a) manufacturers in producing satisfactory low-density mineral wool batt and blanket thermal insulation; and
- (b) authorities in establishing that the product is capable of meeting requirements for specific levels of thermal resistance, e.g. level of thermal resistance which may be called up in accordance with AS 2627.

1.3 REFERENCED DOCUMENTS. The following documents are referred to in this Standard:

AS

- | | |
|--------|--|
| 1530 | Method for fire tests on building materials, components and structures |
| 1530.3 | Part 3: Test for early fire hazard properties of materials |
| 2352 | Glossary of terms for thermal insulation of buildings |
| 2464 | Methods of testing thermal insulation |
| 2464.4 | Part 4: Length, width and thickness of batt or blanket type thermal insulation |
| 2464.5 | Part 5: Steady-state thermal transmission properties by means of the heat flow meter |

2464.6 Part 6: Steady-state thermal transmission properties by means of the guarded hotplate

2464.7 Part 7: Average thermal resistance of low-density mineral wool thermal insulation—Batt and blanket

2627 Thermal insulation of dwellings—Design guide

1.4 DEFINITIONS. For the purpose of this Standard, the definitions given in AS 2352 and the following apply.

1.4.1 Low-density mineral wool—mineral wool thermal insulation with a density not greater than 20 kg/m³.

1.4.2 Pack—a number of batts or blankets of insulation contained as a unit, usually by plastics wrapping

1.4.3 Pack size—the minimum number of complete packs of thermal insulation which will provide 100 ±15 m² of insulation.

1.5 MATERIALS AND MANUFACTURE. Mineral wool shall be manufactured from inorganic oxides or minerals, rock, slag or glass, processed at high temperature from the molten state into a non-crystalline, substantially fibrous glassy form.

It shall be formed into flexible batts or blankets and for this purpose a binder may be used.