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

Clay Brick and Paver Institute

CSIRO, Division of Building, Construction and Engineering

Construction and Housing Association, Australia

Department of Administrative Services—Australian Construction Services

Department of Industry, Technology and Resources, Victoria

Department of Mines and Energy, South Australia

Fibreglass and Rockwool Insulation Manufacturers' Association of Australia

Hydro-Electric Commission, Tasmania

Ministry of Housing and Construction, Victoria

National Building Technology Centre

Plastics Industry Association

Thermal Insulation Contractors' Association, New South Wales

University of Adelaide

University of Melbourne

Victorian Solar Energy Council

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up to date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

Australian Standard®

Mineral wool thermal insulation— Batt and blanket

First published as AS 3742—1990.

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.

CONTENTS

		Tuge
SECTION 1. SCOPE AND GENERAL		
1.1 SCOPE		. 3
1.2 APPLICATION		. 3
1.3 REFERENCED DOCUMENTS		
1.4 DEFINITIONS		
1.5 MATERIALS AND MANUFACTURE		
SECTION 2. PHYSICAL PROPERTIES		
2.1 THERMAL RESISTANCE		4
2.2 COMBUSTION CHARACTERISTICS		
2.3 DIMENSIONS		
SECTION 3. PACKAGING AND MARKING		
3.1 PACKAGING		. 5
3.2 MARKING		
APPENDIX A. TEST SPECIMEN SELECTION FOR DETERMINATION	Ţ	
OF THERMAL RESISTANCE OF A LOT		
OF THERMAL INSULATION		6

© Copyright - STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

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/m^3 .
- **1.4.2 Pack**—a number of batts or blankets of insulation contained as a unit, usually by plastics wrapping.
- **1.4.3** Lot—the minimum number of complete packs of thermal insulation which will provide $100 \pm 15 \text{ m}^2$ 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.