Australian/New Zealand Standard™

Gypsum linings—Application and finishing





AS/NZS 2589:2017

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee BD-011, Interior Board Lining. It was approved on behalf of the Council of Standards Australia on 20 February 2017 and by the New Zealand Standards Approval Board on 7 March 2017.

This Standard was published on 13 April 2017.

The following are represented on Committee BD-011:

Association of Wall and Ceiling Industries of Australia
Association of Wall and Ceiling Industries of New Zealand
Australian Chamber of Commerce and Industry
Australian Paint Manufacturers' Federation
Gypsum Board Manufacturers of Australasia
Housing Industry Association
Master Builders
South Australian Housing Trust

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Web Shop at www.saiglobal.com or Standards New Zealand web site at www.standards.govt.nz and looking up the relevant Standard in the online catalogue.

For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of Standards Australia or the New Zealand Standards Executive at the address shown on the back cover.

This Standard was issued in draft form for comment as DR AS/NZS 2589:2016.

Australian/New Zealand Standard™

Gypsum linings—Application and finishing

Originated as AS 2589—1983 and in part as AS CA20—1950. Previous edition AS/NZS 2589:2007. Second edition 2017. Reissued incorporating Amendment No. 1 (November 2018).

COPYRIGHT

© Standards Australia Limited

© The Crown in right of New Zealand, administered by the New Zealand Standards Executive

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher, unless otherwise permitted under the Copyright Act 1968 (Australia) or the Copyright Act 1994 (New Zealand).

Jointly published by SAI Global Limited under licence from Standards Australia Limited, GPO Box 476, Sydney, NSW 2001 and by Standards New Zealand, PO Box 1473, Wellington 6140.

ISBN 978 1 76035 723 8

This is a preview. Click here to purchase the full publication.

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee BD-011, Interior Board Lining, to supersede AS/NZS 2589:2007, *Gypsum linings—Application and finishing*.

This Standard incorporates Amendment No. 1 (November 2018). 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.

The objective of this Standard is to provide manufacturers, designers and users of gypsum linings with requirements for the application and finishing of such linings in residential and commercial construction applications. This Standard provides a reference for the building industry and specifiers, and a basic Standard for adoption in contracts.

This edition incorporates the following major changes to the previous editions:

- (a) Inclusion of surface tolerances.
- (b) Cross-reference and alignment to AS/NZS 2311.

Statements expressed in mandatory terms in notes to tables are deemed to be requirements of this Standard.

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.

CONTENTS

		Page
SECTIO	ON 1 SCOPE AND GENERAL	
1.1	SCOPE	5
1.1	APPLICATION	
1.3	NORMATIVE REFERENCES	
1.4	DEFINITIONS	
1.4	ALTERNATIVE SYSTEMS AND MATERIALS	
1.3	ALTERNATIVE STSTEMS AND MATERIALS	10
SECTIO	N 2 MATERIALS	
2.1	GENERAL	11
2.2	GYPSUM PLASTERBOARD LINING	11
2.3	FIBRE-REINFORCED GYPSUM LINING	11
2.4	GYPSUM CORNICE	11
2.5	FRAMING SUBSTRATES	
2.6	TIMBER FRAMING	11
2.7	METAL FRAMING	12
2.8	MASONRY	
2.9	FASTENERS	
2.10	CORNER BEAD AND EDGE TRIM	
2.11		
2.12	MASTIC ADHESIVE	_
	DECORATIVE MATERIALS	
SECTIO	N 3 DESIGN REQUIREMENTS	
3.1	QUALITY OF GYPSUM LINING APPLICATION AND FINISHING	16
3.2	STRUCTURAL ACTIONS	18
3.3	STRUCTURAL MOVEMENT	19
3.4	CONTROL JOINTS	19
3.5	SUBSTRATES	21
3.6	VENTILATION AND MOISTURE MANAGEMENT	24
3.7	LIGHTING	25
3.8	ORIENTATION	25
3.9	PAINTING OF GYPSUM LININGS	25
3.10	DEVICES GENERATING HEAT	25
3.11	INSULATING SYSTEMS	25
3.12	EXTERNAL APPLICATIONS	25
SECTIO	N 4 INSTALLATION	
4.1	SITE CONSIDERATIONS	
4.2	SUBSTRATES	
4.3	LAYOUT	
4.4	GYPSUM PLASTERBOARD	
4.5	FIBRE-REINFORCED GYPSUM LININGS	
4.6	FIXING OF CORNICES	
4.7	ASSESSMENT OF THE SURFACE CONDITION AT HANDOVER	
1 Q	INCLI ATING SYSTEMS	51

		Page
APPEN	IDICES	
A	MEASURING THE MOISTURE CONTENT OF TIMBER FRAMING	52
В	DECORATION	55
C	VISIBLE SAG IN CEILINGS	60
D	DESIGN CONSIDERATIONS	64
E	POSSIBLE CAUSE OF UNEVEN LININGS	67
F	PARTIAL SHEET REPLACEMENT	68
BIBLIC)GR A PHY	69

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard Gypsum linings—Application and finishing

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

A1

This Standard sets out the requirements for the application and finishing of gypsum linings and related design considerations.

High density gypsum plasterboard linings greater than 800 kg/m³.

This Standard does not cover the following:

- This Standard does not cover the following.
 - (b) Fire-resisting systems.
 - (c) Wet area gypsum lining systems.
 - (d) Sound insulating systems.
 - (e) Bracing systems.

The wall and ceiling fastening systems are limited to wind category N4, as specified in AS 4055 or NZS 3604.

NOTE: For specialty plasterboards with a density greater than 800 kg/m³ refer to manufacturer's specifications.

1.2 APPLICATION

This Standard provides a choice of different levels of finish, which allows for flexibility of application. Unless otherwise specified, compliance with this Standard is achieved by a Level 4 finish for all gypsum linings except for those areas which are non-visible and generally non-habitable (i.e. non-walk-in cupboards, concealed storage areas and non-livable attics) where a Level 3 finish is acceptable.

This Standard is suitable for use with gypsum plasterboard in accordance with AS/NZS 2588, fibre-reinforced gypsum linings in accordance with Clause 2.3 and gypsum cornices in accordance with Clause 2.4.

1.3 NORMATIVE REFERENCES

The following are the normative documents referenced in this Standard:

NOTE: Documents referenced for guidance and informative purposes are listed in the Bibliography.

AS 1397		ous hot-dip metallic coated steel sheet and strip—Coatings of zinc and byed with aluminium and magnesium
1684	Residen	tial timber-framed construction
1684.1	Part 1:	Design criteria
1684.2	Part 2:	Non-cyclonic areas
1684.3	Part 3:	Cyclonic areas
1684.4	Part 4:	Simplified—Non-cyclonic areas

AS 1720 1720.1 1720.2	Timber structures Part 1: Design methods Part 2: Timber properties				
2331 2331.3.1	Methods of test for metallic and related coatings Method 3.1: Neutral salt spray test (NSS test)				
2334	Steel nails—Metric series				
2753	Adhesives—Mastic—For bonding gypsum plaster linings to wood and meta framing members				
3566	Self-drilling screws for the building and construction industries				
3623	Domestic metal framing				
3700	Masonry structures				
3730	Guide to the properties of paints for buildings (series)				
4055	Wind loads for housing				
4440	Installation of nailplated timber roof trusses				
AS/NZS 1080 1080.1	Timber—Methods of test Method 1: Moisture content				
1170 1170.0 1170.1	Structural design actions Part 0: General principles Part 1: Permanent, imposed and other actions				
2311	Guide to the painting of buildings				
2588	Gypsum plasterboard				
2785	Suspended ceilings—Design and installation				
4600	Cold-formed steel structures				
NZS 3602	Timber and wood-based products for use in building				
3603	Timber Structures Standard				
3604	Timber framed buildings				
4229	Concrete masonry buildings not requiring specific engineering design				
ASTM C475	Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board				
NCC	National Construction Code				
NASH Star	ndard Residential and low-rise steel framing Part 1: Design criteria				
NZBC	New Zealand Building Code				