

AS/NZS 4220:2010

AS/NZS 4220:2010

Australian/New Zealand Standard™

Bunk beds and other elevated beds



AS/NZS 4220:2010

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CS-003, Safety Requirements for Children's Furniture. It was approved on behalf of the Council of Standards Australia on 11 March 2010 and on behalf of the Council of Standards New Zealand on 19 March 2010. This Standard was published on 6 April 2010.

The following are represented on Committee CS-003:

Australian Chamber of Commerce and Industry
Australian Competition and Consumer Commission
Australian Industry Group
Australian Retailers Association
Consumer Affairs Victoria
Consumers Federation of Australia
CHOICE
Department of Commerce Consumer Protection
Department of Health (South Australia)
Department of Tourism, Fair trading and Wine Industry Development, Qld
Furniture Association of New Zealand
Furntech–AFRDI
Infant Nursery Products of Australia
Kidsafe
New Zealand Retailers Association
Office of Fair Trading Department of Commerce, NSW
Westmead Children's Hospital

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 Standards may also be withdrawn.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.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line 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 either Standards Australia or Standards New Zealand at the address shown on the back cover.

This Standard was issued in draft form for comment as DR AS/NZS 4220.

AS/NZS 4220:2010

Australian/New Zealand Standard™

Bunk beds and other elevated beds

Originated as AS/NZS 4220:1994.
Previous edition 2003.
Third edition 2010.

COPYRIGHT

© Standards Australia/Standards New Zealand

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.

Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6140

ISBN 978 0 7337 9461 2

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee CS-003, Safety Requirements for Children's Furniture to supersede AS/NZS 4220:2003. The original edition was motivated by concern expressed by the then South Australian Department of Human Services and Departments of Fair Trading about the number and severity of injuries suffered by children falling from or otherwise injured by bunk beds. Similar concerns had been expressed overseas.

The objective of this Standard is to provide regulatory authorities with safety requirements and to provide manufacturers with functional, durability, stability and performance criteria to meet these safety requirements, in order to reduce the likelihood of deaths or injuries to children.

The following were the major objectives for this revision:

- (a) To increase the minimum vertical distance between the upper surface of the guardrail and the upper surface of the mattress base to a minimum of 360 mm from the 260 mm specified in the 2003 edition.
- (b) To discourage the creation of large gaps in guardrails in order to prevent the inadvertent formation of dangerous smaller gaps that may arise when a mattress is fitted. Of particular concern were gaps formed where the top, outside edge of the mattress forms the bottom edge of an entrapping space.
- (c) To place a maximum limit on the number of permissible access openings in guardrails.
- (d) To expand and improve the section on climbing access.
- (e) To reduce from 800 mm to 700 mm the maximum height above the floor of the upper surface of the mattress base, i.e. the minimum height at which the provisions of this Standard apply.
- (f) To increase the severity of load testing of guardrails.
- (g) To improve both the accuracy and clarity of the figures used in the Standard.

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.

CONTENTS

	<i>Page</i>
1 SCOPE	4
2 REFERENCED DOCUMENTS	4
3 DEFINITIONS	4
4 MATERIALS	5
5 CONSTRUCTION	7
6 SAFETY AND PERFORMANCE REQUIREMENTS	13
7 INFORMATION LEAFLET	15
8 MARKING	16

APPENDICES

A FALL-THROUGH AND ENTRAPMENT HAZARDS	18
B STABILITY	21
C FASTENING OF UPPER BED TO THE SUPPORTING STRUCTURE	23
D FATIGUE TEST ON JOINTS	24
E IMPACT TEST	27
F STATIC LOAD ON GUARDRAILS	29
G IMPACT LOAD ON GUARDRAILS	31
H ACCESS DEVICE ATTACHMENT	34
I STATIC LOAD ON TREADS	36
J IMPACT LOAD ON TREADS	37

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- Looking for additional Standards? Visit Intertek Inform Infostore
 - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-