

Australian/New Zealand Standard™

Folding cots—Safety requirements



AS/NZS 2195:2010

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 16 October 2009 and on behalf of the Council of Standards New Zealand on 10 December 2009. This Standard was published on 2 February 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
CHOICE
Consumer Affairs Victoria
Consumers Federation of Australia
Department of Health, SA
Department of Tourism, Fair trading and Wine Industry Development, Qld
Furniture Association of New Zealand
Furntech–AFRDI
Infant Nursery Products Association of Australia
New Zealand Association of Safety Equipment Testing Laboratories
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 Standards may also be withdrawn.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.

Australian/New Zealand Standard™

Folding cots—Safety requirements

Originated in Australia as AS 2195—1978.
Previous edition AS/NZS 2195:1999.
Third edition 2010.
Reissued incorporating Amendment No. 1 (July 2013).
Reissued incorporating Amendment No. 2 (April 2015).

COPYRIGHT

© Standards Australia Limited/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, 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, Private Bag 2439, Wellington 6140.

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 2195:1999, *Folding cots—Safety requirements*.

This Standard incorporates Amendment No. 1 (July 2013) and Amendment No. 2 (April 2015). 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.

This Standard was revised due to a number of incidents involving folding cots and the vastly changed nature of the product since the previous edition of the Standard.

The objective of this Standard is to provide regulatory authorities with essential safety requirements and to provide manufacturers with functional, durability, stability and performance criteria to reduce the likelihood of death or injury to infants occupying folding cots.

The objective of this revision is to incorporate requirements for accessories such as bassinets, change tables, mosquito nets and specifically addresses the need for better marking and labelling requirements to prevent potential entrapment and suffocation hazards associated with these products if not used or assembled according to manufacturers' instructions.

Committee CS-003 considered suitable materials for cot sides to provide breathability. The requirements of this Standard are for cot sides with an open weave fabric with openings of at least 1.5 mm. In future, other materials may prove suitable and these will be considered for inclusion in this Standard.

This Standard is not intended to limit design, but dimensions are specified where the Committee considered that these relate to the child's safety.

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>
FOREWORD.....	4
1 SCOPE.....	5
2 APPLICATION.....	5
3 REFERENCED DOCUMENTS	5
4 DEFINITIONS	5
5 TIMBER FOLDING COTS	6
6 MATERIALS.....	7
7 CONSTRUCTION AND ASSEMBLY	7
8 DESIGN.....	8
9 LABELS OR TRANSFERS	15
10 SAFETY AND PERFORMANCE REQUIREMENTS.....	16
11 PLASTIC PACKAGING	19
12 PRINTED INSTRUCTIONS.....	20
13 MARKING	21
APPENDICES	
A ENTRAPMENT HAZARD TEST	26
B STRENGTH TEST	30
C FOLDING TEST/FRAME TEST.....	31
D IMPACT TEST	34
E STRENGTH OF FRAME AND FASTENINGS—FATIGUE TEST	36
F STRENGTH OF FRAME AND FASTENINGS—VERTICAL STATIC LOAD.....	38
G LOCKING MECHANISM TEST	39
H DETACHABLE PARTS TEST.....	40
I BITE TEST.....	42
J TEST FOR OPENING IN FABRICS AND MESH.....	44
K MESH AND ADJACENT COT STRUCTURE FOOTHOLD TEST	46
L FOLDING SIDE ENTRAPMENT TEST	48
M ACCIDENTAL DISLODGMET TEST FOR AN ACCESSORY	51
N CASTOR OR WHEEL BRAKE EFFICIENCY	52
O TEXTILE MATERIAL ATTACHMENT TEST	54
P TEST FOR SECURITY OF MOSQUITO NET	55
Q MATTRESS AND BASE DEFLECTION TEST	57

FOREWORD

The most important safety hazards found with folding cots are:

- (a) Inadvertent release of locking devices and subsequent collapse of a cot's side.
- (b) Strangulation or asphyxiation hazard resulting from the entrapment of a child's neck if one or more of the locking devices fails and the sides form a clamping 'v' shape.
- (c) Suffocation hazard resulting from the use of non-breathable materials for the mattress and flexible sides of the folding cot, sometimes involving a child's head being entrapped between the mattress and flexible sides of the cot. Breathability requirements have been included for the sides of the folding cot but a requirement for mattresses is still to be developed.

Specific safety requirements are included in this Standard that are designed to overcome such safety issues. These include testing for strength and durability of the locking devices and folding mechanism. A bite test and a detachable parts test ensure children cannot swallow small parts of components of the cot. Requirements are also included to ensure there are no footholds and a sufficient depth of sides to prevent children from falling out of the cot.

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard Folding cots—Safety requirements

1 SCOPE

This Standard specifies safety requirements for folding cots and accessories used with folding cots. These requirements cover materials, design, construction, performance, labelling and marking, all of which are important for the well being of children who use cots. The Standard is applicable to folding cots constructed of metal, plastic, textile fabric or mesh. For timber folding cots or cots made with rigid materials (see Clause 5) reference is made to AS/NZS 2172. Playpens with a floor also fall within the scope of this Standard as they are essentially the same product as folding cots. Playpens without a floor are not covered by this Standard.

This Standard is not applicable to cradles, carry cots or to non-folding cots.

2 APPLICATION

This Standard is applicable to cots that can be readily dismantled or folded for transportation or storage, intended for children in households or day nurseries.

3 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS

2001 Methods of test for textiles

2001.2.3.2 Method 2.3.2: Physical tests—Determination of maximum force using the grab method (ISO 13934-2:1999, MOD)

2001.2.10 Method 2.10: Physical tests—Determination of the tear resistance of woven textile fabrics by the wing-rip method

2001.2.21 Method 2.21: Physical tests—Determination of seam opening due to the application of force in the transverse direction

2281 Flexible cellular polyurethane for seat cushioning and bedding

AS/NZS

2172 Cots for household use—Safety requirements

AS/NZS ISO

8124 Safety of toys

8124.1 Part 1: Safety aspects related to mechanical and physical properties (ISO 8124.1:2000, MOD)

8124.3 Part 3: Migration of certain elements

4 DEFINITIONS

For the purpose of this Standard the definitions below apply.

4.1 Accessible to the child

Within the reach of the child that is inside the folding cot, including components of the folding cot that are on the outside to within a distance of 300 mm in any direction except below the mattress base.

NOTE: See Clause 4.12 for the definition of ‘within the folding cot’. When a child is ‘within the folding cot’, components that a child can reach need to be tested, and components that cannot be reached do not need to be tested, e.g. castors.