

AS 5407.2:2025



STANDARDS
Australia

Methods of testing infant sleep surfaces

Method 2: Test for firmness of objects that cannot be tested to AS 5407.1

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AS 5407.2:2025

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- Australian Chamber of Commerce and Industry
- Australian Competition and Consumer Commission
- Australian Industry Group
- Australian Retailers Association
- Australian Toy Association
- CHOICE
- Consumers' Federation of Australia
- Furntech — Australasian Furnishing Research & Development Institute
- Infant Nursery Products Alliance of Australia (INPAA)
- Intertek Group
- Kidsafe Australia
- National Retail Association Australia
- Office of Fair Trading (QLD)
- Public Health Association of Australia
- Queensland Injury Surveillance Unit
- Red Nose Australia
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Australian Standard[®]

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**Method 2: Test for firmness of objects that
cannot be tested to AS 5407.1**

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How to read this Standard

This page explains the meaning of the language and structure of this Standard.

Refer to Standards Australia's [Standardisation Guide 006](#) for more details about drafting rules.

Australian and Australian/New Zealand Standards are voluntary unless they are referenced in legislation or called up in contracts.

Requirements

To conform to a Standard, all requirements in the Standard need to be met.

A requirement is any statement in the Standard which uses the word "shall".

Recommendations, permissions and possibilities

The following words are commonly used in Standards, but statements using them do not have to be followed to conform to the Standard:

- (a) "should" means that something is recommended.
- (b) "may" means that something is permitted.
- (c) "can" means that something is possible.

Structure of Standards

A Standard always has the following parts:

- (i) The Preface states who developed the Standard, what the Standard is aiming to do, and how it relates to other documents.
- (ii) The Scope states what the Standard is about, what it covers and what it does not cover.
- (iii) The Normative references clause lists other documents that are referenced in the Standard as part of requirements.
- (iv) The Terms and definitions clause defines important terms to help with understanding the Standard.

A Standard may also include other parts, such as the following:

- (1) A normative appendix sets additional requirements that need to be conformed to.
- (2) An informative appendix provides additional information or guidance. An informative appendix provides additional information or guidance. They usually do not contain requirements. If an informative appendix does contain requirements, the Standard will specify when those requirements apply.
- (3) A Bibliography lists documents referenced in the Standard but not as part of requirements.

Many Standards include notes. Notes provide recommendations and/or guidance only. They never contain requirements.

Preface

This Standard was prepared by Standards Australia Committee CS-310, Child Care Articles.

The objective of this document is to specify a method for assessing whether an infant sleep-related surface which is smaller than the minimum dimension required by AS 5407.1, or which presents a curved surface to the infant, exhibits excessive compression when subjected to a force applied through a standard load pad.

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Introduction

Over a period of many years, an association between infant mortality and overly soft sleep surfaces has become established in the medical literature.

Expert advice to caregivers, nationally and internationally, historically specified a “firm” infant sleep-related surface, without quantifying the minimum acceptable firmness or a method for determining it. This document helps to address those gaps by presenting an alternative test method and associated performance requirements for infant sleep-related surfaces that cannot be tested to AS 5407.1 due to their small size and/or their curved surface.

Product safety standards are often motivated by new, dangerous designs, and such was the case with this document. Recent cases of infant suffocation have occurred on soft-sided products that included surfaces that could not be tested to AS 5407.1.

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NOTES

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Australian Standard®

Methods of testing infant sleep surfaces

Method 2: Test for firmness of objects that cannot be tested to AS 5407.1

1 Scope

This document sets out the method for assessing whether an infant sleep-related surface which is smaller than 243 x 203 mm, or which presents a curved surface to the infant, exhibits excessive compression when subjected to a force applied through a specified load pad.

2 Application

This document is intended to be referenced by a number of product safety standards. Where no standard exists for a particular product type, the test method can nevertheless be used to identify hazardous softness in a sleep-related surface, corresponding approximately to a threefold excess risk of death.

As with AS 5407.1, this document is intended for use where an infant might be reasonably expected to fall asleep on, or against, a surface in a relevant product (e.g. cot, crib, pram, infant cocoon, infant sleep mat, bassinet, cradle, carry-cot, portable cot, etc.).

The test method is not appropriate for slings, hammocks and other such devices that support an infant by suspension. The test method is not appropriate for objects of length or width less than 75 mm.

Infant sleep-related surfaces that can successfully be assessed with AS 5407.1 shall be assessed using that document. Both this document and AS 5407.1 specify a matching firmness requirement. As with AS 5407.1, this document can accommodate fabric billowing, but unlike AS 5407.1 this document cannot be used to identify a potentially hazardous raised area on the tested surface that could possibly block an infant's airway.

3 Normative references

The following document is referred to in the text in such a way that some or all of its content constitutes requirements of this document:

AS 5407.1, *Methods of testing infant sleep surfaces, Method 1: Test for firmness and flatness*

4 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- (a) IEC Electropedia: available at <https://www.electropedia.org/>
- (b) ISO Online browsing platform: available at <https://www.iso.org/obp>

4.1 Billowing

raised area on the sleep-related surface due to puffing of the covering fabric

4.2

may

indicates the existence of an option