AS 4076.1:2026
ISO 1120:2025

Australian STANDARD®

STANDARDS Australia

Conveyor belts — Determination of strength of mechanical fastenings

Part 1: Static test method (ISO 1120:2025, IDT)



AS 4076.1:2026

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- Australasian Plastics and Rubber Institute
- Australian Chamber of Commerce and Industry
- Australian Industry Group
- Bureau of Steel Manufacturers of Australia
- Engineers Australia
- Minerals Council of Australia
- NSW Department of Primary Industries and Regional Development
- SafeWork NSW Agency
- University of Newcastle

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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. They usually do not contain requirements. If an informative appendix does contain requirements, the Standard will explain 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 the Standards Australia Committee RU-002, Conveyor And Elevator Belting, to supersede AS 4076.1—1992, *Conveyor belts—Determination of strength of mechanical fastenings, Part 1: Static test method*.

The objective of this document is to specify a static test method for measuring the strength of a conveyor belt mechanical fastening; the mechanical joints can be either of the type employing a connecting rod or of a type which does not employ a connecting rod.

This document does not cover vulcanized joints.

This document is neither applicable to nor valid for light conveyor belts, as described in ISO 21183-1.

NOTE The purpose of the test specified in this document is to eliminate mechanical fastenings of insufficient static strength. It is intended to establish a dynamic test at a later date.

This document is identical to and has been reproduced from ISO 1120:2025, *Conveyor belts — Determination of strength of mechanical fastenings for textile conveyor belts — Static test method*.

As this document has been reproduced from an international document, a comma is to be read as a full point when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific Standards.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO document should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

ISO draws attention to the possibility that the implementation of this document may involve the use of (a) patent(s). ISO takes no position concerning the evidence, validity or applicability of any claimed patent rights in respect thereof. As of the date of publication of this document, ISO had not received notice of (a) patent(s) which may be required to implement this document. However, implementers are cautioned that this may not represent the latest information, which may be obtained from the patent database available at www.iso.org/patents. ISO shall not be held responsible for identifying any or all such patent rights.

Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*, Subcommittee SC 3, *Conveyor belts*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 188, *Conveyor belts*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

This fifth edition cancels and replaces the fourth edition (ISO 1120:2012), which has been technically revised.

The main changes are as follows:

— revision of normative references;

— revision of Figure 1 and Figure 2;

— clarification of evaluation criteria for sample failure in Clause 4;

— deletion of the limits of the fastening width in Clause 6.2.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

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Australian Standard®

Conveyor belts — Determination of strength of mechanical fastenings

Part 1: Static test method (ISO 1120:2025, IDT)

1 Scope

This document specifies a static test method for measuring the strength of a conveyor belt mechanical fastening; the mechanical joints can be either of the type employing a connecting rod or of a type which does not employ a connecting rod.

This document does not cover vulcanized joints.

This document is neither applicable to nor valid for light conveyor belts, as described in ISO 21183-1.

NOTE The purpose of the test specified in this document is to eliminate mechanical fastenings of insufficient static strength. It is intended to establish a dynamic test at a later date.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 283, *Textile conveyor belts — Full thickness tensile strength, elongation at break and elongation at the reference load — Test method*

ISO 18573, *Conveyor belts — Test atmospheres and conditioning periods*

3 Terms and definitions

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

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

— ISO Online browsing platform: available at https://www.iso.org/obp

— IEC Electropedia: available at https://www.electropedia.org/

3.1
width of fastening
number of units multiplied by the pitch, or number of fastener plates multiplied by the pitch

3.2
pitch
distance between a point on a unit or fastener plate and the corresponding point on the next unit or fastener plate, according to the type of fastening

Note 1 to entry: See Figure 1.

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