



JAPANESE  
INDUSTRIAL  
STANDARD

Translated and Published by  
Japanese Standards Association

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⑤ JIS S 1121 : 2000

## Aluminium ladder and stepladder

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ICS 97.145

**Descriptors** : steps (stairs), ladders, domestic, aluminium alloys, household equipment

**Reference number** : JIS S 1121 : 2000 (E)

## Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS S 1121 : 1992** is replaced with **JIS S 1121 : 2000**.

The revision on this occasion is carried out for realizing the following purposes:

- a) for securing the strength of stepladder, the strength of stepladder for combined use, the strength of the supporting legs of ladder and the strength of platform;
- b) for newly adding the specification of strength of stepladder for combined use in lateral direction; strength of ladder fixing device; strength of end part of supporting legs, strength of opening restraint device and opening angle of supporting legs of stepladder.

Date of Establishment: 1976-02-01

Date of Revision: 2000-10-20

Date of Public Notice in Official Gazette: 2000-10-20

Investigated by: Japanese Industrial Standards Committee  
Divisional Council on Consumer Life

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JIS S 1121 : 2000, First English edition published in 2001-09

Translated and published by: Japanese Standards Association  
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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In the event of any doubts arising as to the contents,  
the original JIS is to be the final authority.

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Printed in Japan

## Aluminium ladder and stepladder

**1 Scope** This Japanese Industrial Standard specifies the aluminium alloy stepladders for general use the height of which is not more than 2 m (hereafter referred to as “stepladder”) and the portable ladders the maximum length of which is not more than 10 m (hereafter referred to as “ladder”).

- Remarks 1 The stepladders specified in this Standard are ones which are used exclusively for stepladder (hereafter referred to as “stepladder for exclusive use”) and the other with four supporting legs which is usable in two ways for stepladders and ladders (hereafter referred to as “stepladder for combined use”). The stepladders with multi-joints (having two or more pairs of folding mechanism) are not included.
- 2 There are two types of stepladder, namely, the one type having a platform able to be ridden and the other type of a platform unable to be ridden, and the former provides a handrail with a height not more than 800 mm or exceeding 800 mm.
- 3 There are two types of ladders, namely, the one type which is impossible to adjust the length (called “single ladder”) and other type with extension structure by which the length can be adjusted by a rope (called “extending ladder”).
- 4 Stepladders and ladders whose parts of structure such as supporting legs, rungs, platform are made of plastics are excluded.

**2 Normative references** The following standards contain provisions which, through reference in this Standard, constitute provision of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 4305 *Cold rolled stainless steel plates, sheets and strip*

JIS H 4100 *Aluminium and aluminium alloy extruded shape*

JIS L 2703 *Vinylon ropes*

JIS Z 8703 *Standard atmospheric conditions for testing*

**3 Definitions** For the purpose of this Standard the following definitions apply:

- a) **tread** The upper surface of the rung when a stepladder or a ladder is set in a state of use.
- b) **upper ladder locking device** The locking device with which the extended upper ladder is connected to the lower ladder to be fixed.
- c) **maximum length** The maximum use length including the lower end fittings (containing the end fittings to stop slip) and the upper end fittings.
- d) **stepladder height** When a stepladder is set in a state of use, a vertical distance ( $H$ ) between the upper surface of the platform and the ground contact surface.