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Beds for domestic use

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Bed Manufacturers Association All Japan (BMAJ)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS S 1102:2004** is replaced with this Standard.

However, **JIS S 1102:2004** may be applied in the **JIS** mark certification based on the relevant provisions of Article 19 Clause 1, etc. of the Industrial Standardization Law until August 20, 2018.

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Beds for domestic use

1 Scope

This Japanese Industrial Standard specifies the beds for domestic use¹⁾ (hereafter referred to as beds). This Standard does not cover beds with special functions or structures, such as cribs, sofa beds, bunk beds, adjustable beds, etc.

Note ¹⁾ The beds for domestic use in this Standard mean those beds consisting of a mattress used for sleeping and a bed frame that supports the mattress.

2 Normative references

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

JIS A 5549 *Adhesives for fixture*

JIS A 5905 *Fiberboards*

JIS A 5908 *Particleboards*

JIS B 7516 *Metal rules*

JIS G 3101 *Rolled steels for general structure*

JIS G 3123 *Cold finished carbon and alloy steel bars*

JIS G 3131 *Hot-rolled mild steel plates, sheet and strip*

JIS G 3141 *Cold-reduced carbon steel sheet and strip*

JIS G 3350 *Light gauge steel sections for general structure*

JIS G 3444 *Carbon steel tubes for general structure*

JIS G 3445 *Carbon steel tubes for machine structure*

JIS G 3446 *Stainless steel tubes for machine and structural purposes*

JIS G 3466 *Carbon steel square and rectangular tubes for general structure*

JIS G 3506 *High carbon steel wire rods*

JIS G 3521 *Hard drawn steel wires*

JIS G 4305 *Cold-rolled stainless steel plate, sheet and strip*

JIS K 5961 *Household varnish for interior wooden floor*

JIS K 5962 *Household paint for wood and metal*

JIS K 6401 *Flexible cellular polymeric materials—Polyurethane foam for load-bearing applications excluding carpet underlay—Specification*

JIS K 6804 *Poly(vinylacetate) emulsion adhesives for woods*

JIS K 6903 *Laminated thermosetting high-pressure decorative sheets*

JIS L 1041 *Test methods for resin finished textiles*

JIS L 1096 *Testing methods for woven and knitted fabrics*

JIS Z 1522 *Pressure sensitive adhesive cellophane tapes*

Japanese Agricultural Standard for Plywood

Japanese Agricultural Standard for Sawn Lumber

3 Classification

The beds are classified into two types as described in the following.

- a) **Type A** The beds whose headboard and footboard of bed frame for supporting the mattress is in contact with the floor [see Figure 1 a)].
- b) **Type B** The beds whose bed frame legs for supporting the mattress is in contact with the floor [see Figure 1 b)].

4 Designation of each part

The designation of each part of the bed shall be in accordance with Figure 1.

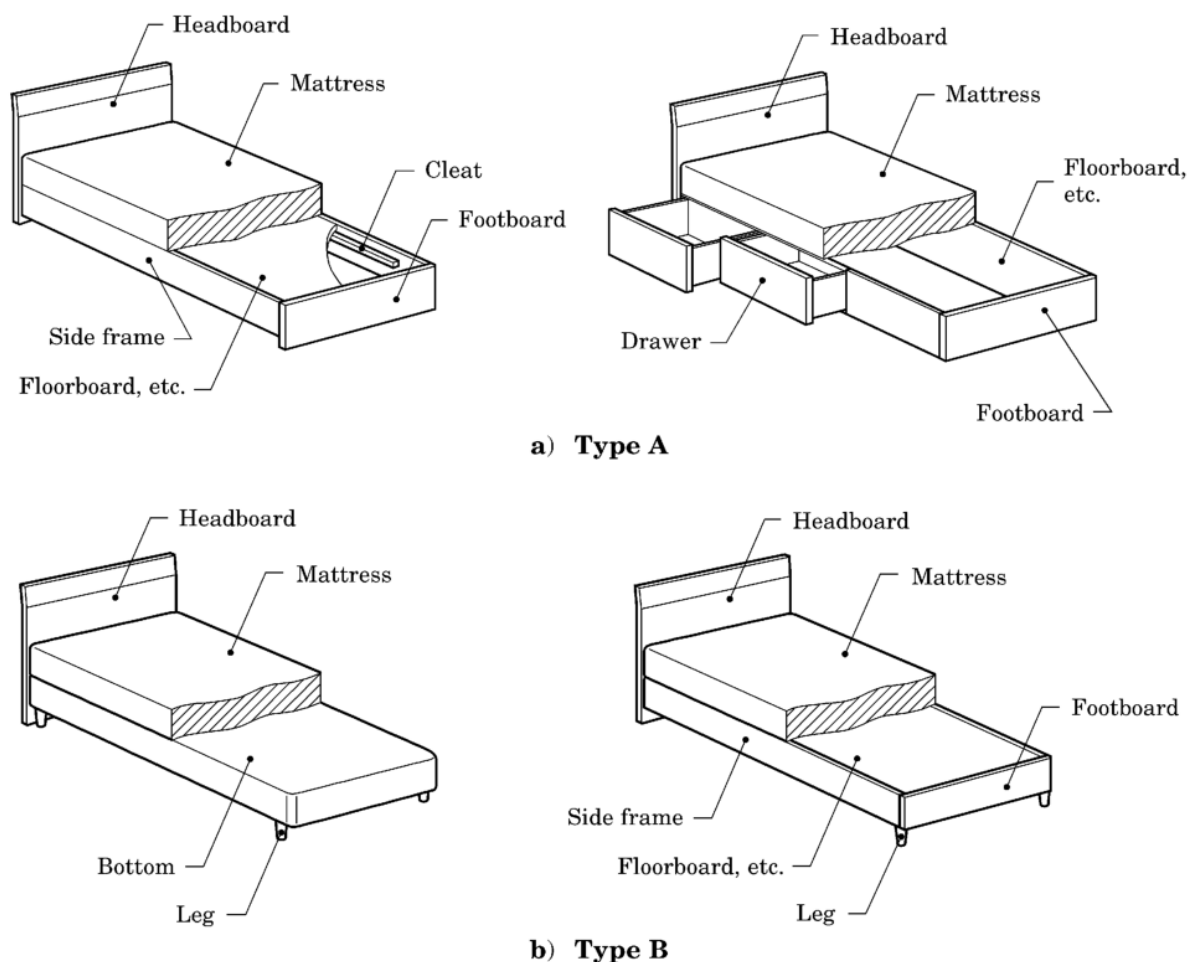


Figure 1 Types and designation of each part

5 Performance

The bed shall be tested in accordance with the methods specified in clause 10 (excluding that specified in 10.2.8), and conform to the requirements in Table 1.

Table 1 Performance requirements and applicable test subclauses

Item	Requirement	Test subclause
Durability of mattress	a) None of the amounts of settlement, d_1 , d_2 and d_3 , shall exceed 40 mm. b) After 80 000 cycles of pressure application, the bed shall be free from 1) gap, fray, rent, or other defects in the outside fabric; 2) movement, cave-in, disconnection, or other defects of the padding; 3) breakage, disconnection, or other defects of the spring.	10.1.1
Durability of bottom	a) No gap, fray, rent, or other defects of the outside fabric b) No defects in the bottom that may be detrimental to the use of the product such as fissures or breaks.	10.1.1
Vertical load	The increment of deflection: $D_1 \leq 45$ mm, $D_2 \geq 5$ mm	10.1.2
Strength of legs	No defects in the structural body that may be detrimental to the use of the product such as looseness, shaking, or deformation of the legs or the headboard, or the fitting parts thereof.	10.2.1
Strength of side frame	No defects that may be detrimental to the use of the product such as looseness or disconnection of the parts, or fissuring or cracking of the materials.	10.2.2
Strength of cleat	No defects that may be detrimental to the use of the product such as looseness or disconnection of the parts, or fissuring or cracking of the materials.	10.2.3
Strength of floorboard	No defects that may be detrimental to the use of the product such as fissuring or cracking of the materials.	10.2.4
Durability of drawer	No defects that may be detrimental to the use of the product such as damage, looseness, or deformation in the drawer or in the fitting part thereof.	10.2.5 a)
Dislodgment of drawer bottom plate	No defects that may be detrimental to the use of the product such as damage, looseness, or deformation in the bottom board of the drawer.	10.2.5 b)
Tensile strength of outside fabric of mattress	Tensile strength shall be not less than 300 N.	10.2.6
Adhesion of paint film on wooden part	Peeling of the paint film shall not occur on more than five squares.	10.2.7 b)
Adhesion of paint film on metallic part	Peeling of the paint film shall not occur on more than five squares.	10.2.7 c)
Rust prevention of paint film on metallic part	No blistering or development of rust anywhere outside 3 mm area on either side of the cuts.	10.2.7 d)