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Steel sheds

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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 Japan Steel Sheds Industry Association (JSIA)/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 A 6603** : 1996 is replaced with this Standard.

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Steel sheds

1 Scope

This Japanese Industrial Standard specifies the steel sheds [hereafter referred to as “sheds”¹⁾] and its construction members (hereafter referred to as “members”). However, the sheds with shutter-type doors or those commonly used as the garage are excluded. The foundation is not included in this Standard.

Note ¹⁾ A “shed” is a storage for storing articles, which is mainly built of steel sheets and steel members.

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 1414 *Methods of performance test of panels for building construction*
- JIS A 1415 *Methods of exposure to laboratory light sources for polymeric material of buildings*
- JIS B 7512 *Steel tape measures*
- JIS G 3141 *Cold-reduced carbon steel sheets and strips*
- JIS G 3302 *Hot-dip zinc-coated steel sheet and strip*
- JIS G 3312 *Prepainted hot-dip zinc-coated steel sheet and strip*
- JIS G 3313 *Electrolytic zinc-coated steel sheet and strip*
- JIS G 3317 *Hot-dip zinc-5 % aluminium alloy-coated steel sheet and strip*
- JIS G 3318 *Prepainted hot-dip zinc—5 % aluminium alloy-coated steel sheet and strip*
- JIS G 3321 *Hot-dip 55 % aluminium-zinc alloy-coated steel sheet and strip*
- JIS G 3322 *Prepainted hot-dip 55 % aluminium-zinc alloy-coated steel sheet and strip*
- JIS G 3350 *Light gauge sections for general structure*
- JIS G 3444 *Carbon steel tubes for general structural purposes*
- JIS G 3445 *Carbon steel tubes for machine structural purposes*
- JIS G 3466 *Carbon steel square and rectangular tubes for general structure*
- JIS G 4305 *Cold-rolled stainless steel plate, sheet and strip*
- JIS H 4100 *Aluminium and aluminium alloy extruded shape*
- JIS H 5301 *Zinc alloys die castings*
- JIS H 5302 *Aluminium alloy die castings*
- JIS H 8602 *Combined coatings of anodic oxide and organic coatings on aluminium and aluminium alloys*
- JIS K 6744 *Polyvinyl chloride coated and laminated metal sheets*

JIS K 7211-1 *Plastics—Determination of puncture impact behaviour of rigid plastics—Part 1: Non-instrumented impact testing*

JIS Z 2371 *Methods of salt spray testing*

JIS Z 8401 *Guide to the rounding of numbers*

JIS Z 8703 *Standard atmospheric conditions for testing*

JIS Z 8723 *Methods for visual comparison of surface colours*

JIS Z 8741 *Specular glossiness—Method of measurement*

3 Name of each part

The name of each part of a shed shall be as shown in figure 1. The shape of the shed shown below, however, is one example.

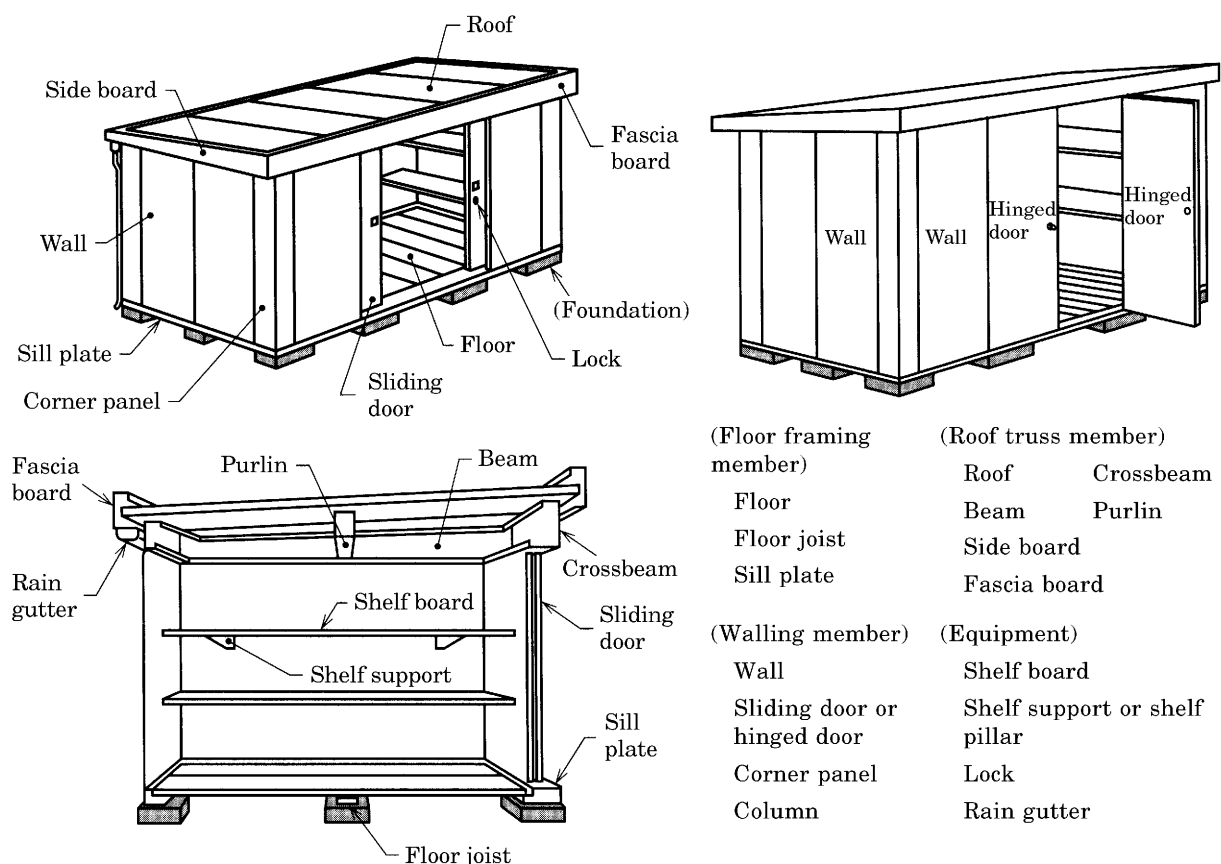


Figure 1 Name of each part

4 Classification

The classification of sheds shall be as follows.

- a) **Classification according to dimension** The classification according to the dimensions shall be indicated in table 1.

S type sheds are small sheds which are mainly installed on the side or under the eaves of a house with less effect of the wind and rain, and L type sheds are those other than S type sheds.

Table 1 Classification according to dimension

Type	Symbol	Dimension
S type	S	Height (h_1 of figure 2) is under 2 000 mm, and depth (d_1 of figure 2) is 900 mm or under.
L type	L	Height (h_1 of figure 2) is 2 000 mm or over, and depth (d_1 of figure 2) is over 900 mm.

- b) **Classification according to snow load** The classification according to the snow load shall be as indicated in table 2.

Table 2 Classification according to snow load

Type	Outline
S type	—
L type	Type 1 Shed mainly installed in the area with the maximum snow depth of 60 cm.
	Type 2 Shed mainly installed in the area with the maximum snow depth of 1 m.
	Type 3 Shed mainly installed in the area with the maximum snow depth of 1.5 m.

- c) **Classification according to structure of L type** The classification according to the structure of L type shall be as indicated in table 3.

Table 3 Classification according to structure

Type	Symbol	Outline
L type	Independent type	A Shed to be installed independently
	Continuous type	B Shed to be installed continuously

5 Quality

5.1 Appearance

5.1.1 Shed (completed product)

The appearance of the shed shall be as follows.

- The shed shall be free from any defects detrimental to use such as deformation, cracks, and out-of-joint of the joined part.
- The part likely to be in contact with human body or clothes shall be free from sharp projections (burrs, flashes, etc.) and be safe.
- The finished surface of the shed shall be flat, and free from any defects such as swells and flaws.
- The coated surface shall be flat, uniform in the gloss and colour tone, and free from uneven coating and sagging.

5.1.2 Members

The appearance of the members shall be as follows.

- a) The members shall be free from any defects such as deformation, cracks, out-of-joint of the joined part and flaws.
- b) The coated surface shall be flat, uniform in the gloss and colour tone, and free from uneven coating and sagging.

5.2 Performance

The shed shall be tested in accordance with the test methods specified in clause 9, and S type and L type shall comply with tables 4-1 and 4-2, respectively.

Table 4-1 Performance of S type shed

Performance item				Performance	Test subclause to be applied
Strength	Vertical load			To be free from significant deformation or dent which is interference to use of the roof part. And there shall be no trouble for the opening and closing of sliding door, hinged door and folding door.	9.4.1
	Strength of shelf board			Maximum deflection is 10 mm, and maximum residual deflection is 3 mm.	9.4.2
	Strength of floor			To be free from significant deformation or dent which is interference to use.	9.4.3
	Impact resistance	Eggplant shaped striker free fall type	Roof, wall, sliding door, hinged door and folding door	To be free from penetration or significant deformation which is interference to use.	9.4.6 b)
Durability	Opening/closing repeating		Siding door, hinged door and folding door	To be free from interference to opening/closing.	9.5.1
	Accelerated weathering		Gloss retention	80 % min.	9.5.2
			Discolouration	To be free from noticeable discolouration.	
	Salt spray			To be free from changes in surface treatment, rust, swelling or peeling of painted film.	9.5.3
Water-shower			To be free from water leakage.	9.5.4	