

JIS

JAPANESE INDUSTRIAL STANDARD

Steel Furrings for Wall and Ceiling in Buildings

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In the event of any doubt arising,
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Steel Furrings for Wall and
Ceiling in Buildings

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1. Scope

This Japanese Industrial Standard specifies the steel furrings for walls and ceilings in buildings, hereinafter referred to as the "wall furrings" and "ceiling furrings".

Remark: The units and numerical values given in { } in this Standard are based on the traditional unit system and are currently the criteria in force.

2. Names of Members

The names of individual members of wall furrings and ceiling furrings and principal accessory metal fittings shall be as given in Fig. 1 and Fig. 2.

Applicable Standards:

JIS A 1414-Methods of Performance Test of Panels for Building Construction

JIS A 6901-Gypsum Boards

JIS G 3302-Hot-dip Zinc-coated Steel Sheets and Coils

JIS G 3505-Low Carbon Steel Wire Rods

JIS H 0401-Methods of Test for Hot Dip Galvanized Coatings

JIS H 8610-Electroplated Coatings of Zinc on Iron and Steel

JIS Z 9001-General Rules for Sampling Inspection Procedures

Reference Standard:

JIS B 1115-Slotted Head Tapping Screws

Fig. 1. Wall Furrings (Exemplified Figure)

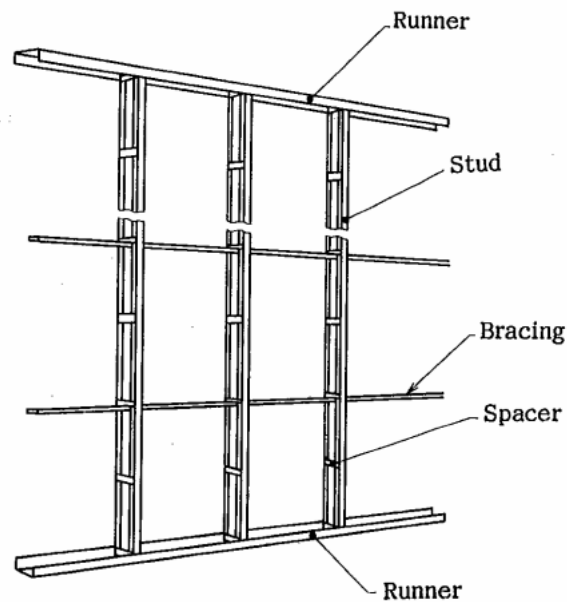
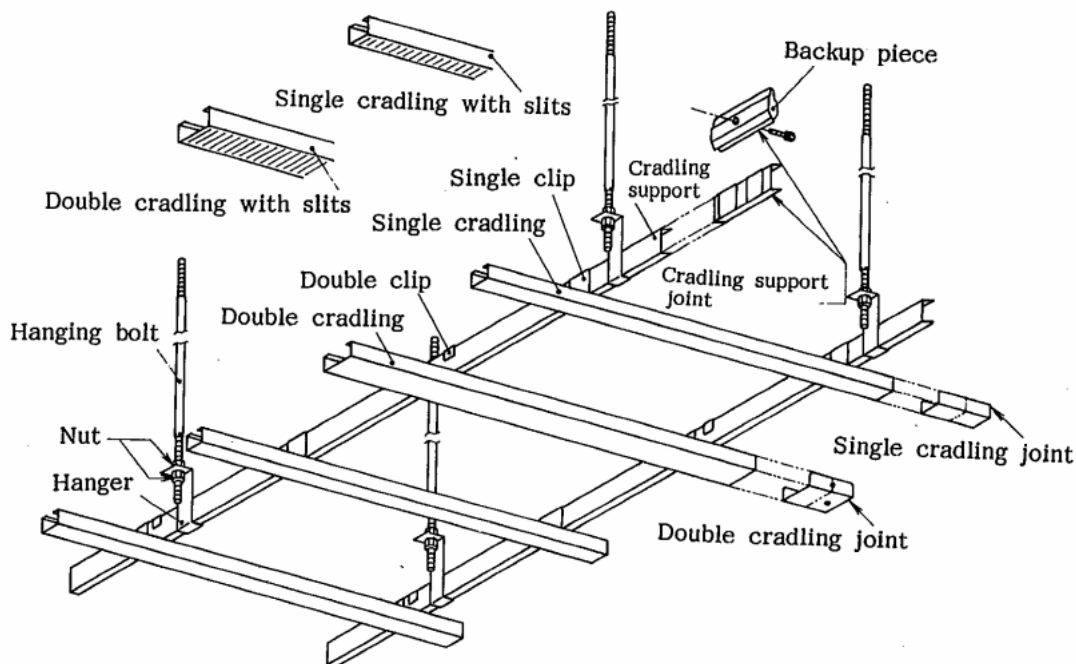


Fig. 2. Ceiling Furrings (Exemplified Figure)



Remark: The body of a steel ceiling furring shall include studs, runners, bracings, cradlings and cradling supports.

3. Types and Symbols

The wall furrings and ceiling furrings shall be classified as given in Table 1, according to the shape and dimensions of the members.

Table 1. Types and Symbols

Type			Symbol	Remark	
Wall furrings	Studs, runners, bracings and spacers	Type 50	W- 50	An assembly of WS-50, WR-50 and WB-19, with studs 2.7 m or under.	WS: stud WR: runner WB: bracing
		Type 65	W- 65	An assembly of WS-65, WR-65 and WB-25, with studs 4 m or under.	
		Type 75	W- 75	An assembly of WS-75, WR-75 and WB-25, with studs 4 m or under.	
		Type 90	W- 90	An assembly of WS-90, WR-90 and WB-25 with studs 4.5 m or under.	
		Type 100	W-100	An assembly of WS-100, WR-100 and WB-25, studs 5 m or under.	
Ceiling furrings	Cradlings, cradling supports and metal fittings	Type 19	C- 19	An assembly of CS 19, CW-19 and CC-19 which is put together by metal fittings, and of which cradlings are capable of withstanding the load of 294.20 N (30 kgf) of 8.5.1 (1).	CS: single cradling (including those with slits) CW: double cradling (including those with slits) CC: cradling support
		Type 25	C- 25	An assembly of CS-25, CW-25 and CC-25 which is put together by metal fittings, and of which cradlings are capable of withstanding the superimposed load of 490.33 N (50 kgf) of 8.5.1 (1).	

4. Quality

The quality of the wall furring and ceiling furring shall be in accordance with the following:

- (1) Joints of spacers, clips and other metal fittings with the body shall be free from plays or slacknesses.
- (2) The body shall be free from any torsion or deformation impedimental to use.
- (3) The jointed portion of the body shall be free from any unevenness impedimental to installing the finishing materials.
- (4) The rust preventive treatment shall be of Z 12 specified in JIS G 3302 or better.
- (5) Accessory metal fittings shall be those which have been subjected to rust preventive treatment equal to or superior to that for the body. The hanging bolts and nuts, however, shall be those which have been subjected to rust preventive treatment equal to or superior to grade 1 of class 1 and 2 specified in JIS H 8610, respectively.
- (6) The steel furring, when tested in accordance with the testing method of 8., shall conform to the requirements of Tables 2 and 3.