

# JIS

**JAPANESE INDUSTRIAL STANDARD**

**Hot-dip zinc-coated steel  
sheets and coils**

 **JIS G 3302**—1994

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Hot-dip zinc-coated steel sheets  
and coils

G 3302-1994

1. **Scope** This Japanese Industrial Standard specifies the steel sheets and coils, (hereafter referred to as "sheet and coil"), equally zinc-coated on both surfaces applied by dipping in a bath of molten zinc containing not less than 97 % of zinc in percentage by mass (provided that the aluminium content is normally 0.30 % or less). In this case, the term "sheet" includes not only sheets in flat form but also sheets with corrugations of specified shape and dimensions given in JIS G 3316.

Remarks: The standards cited in this Standard are given as follows:

JIS G 0303 General rules for inspection of steel

JIS G 3316 Shapes and dimensions of corrugated steel sheets

JIS H 0401 Methods of test for hot dip galvanized coatings

JIS Z 2201 Test pieces for tensile test for metallic materials

JIS Z 2241 Method of tensile test for metallic materials

JIS Z 8401 Rules for rounding off of numerical values

2. **Grade and symbol** The sheet and coil shall be classified into 6 grades in the case of base metal of hot-rolled sheet coils (hereafter referred to as "hot-rolled base metal"), into 10 grades in the case of base metal of cold-reduced sheet coils (hereafter referred to as "cold-reduced base metal"), and their symbols shall be as given in Tables 1 and 2.

Table 1. Grade and symbol (for zinc-coated hot-rolled sheet coils)

Unit: mm		
Symbol of grade	Nominal thickness	Application
SGHC	1.6 and over, up to and incl. 6.0	Commercial quality
SGH340		Structural quality
SGH400		
SGH440		
SGH490		
SGH540		

Table 2. Grade and symbol (for zinc-coated cold-reduced sheet coils)

Unit: mm

Symbol of grade	Nominal thickness	Application
SGCC	0.25 and over, up to and incl. 3.2	Commercial quality
SGCH	0.11 and over, up to and incl. 1.0	Commercial quality, hard class
SGCD1	0.40 and over, up to and incl. 2.3	Drawing quality, class 1
SGCD2		Drawing quality, class 2
SGCD3	0.60 and over, up to and incl. 2.3	Drawing quality, class 3
SGC340	0.25 and over, up to and incl. 3.2	Structural quality
SGC400		
SGC440		
SGC490		
SGC570	0.25 and over, up to and incl. 2.0	

- Remarks
1. When nonaging property is to be guaranteed for the sheet and coil of SGCD3 upon request by the purchaser, the symbol N shall be suffixed to their symbols, thus appears SGCD3N.
  2. Nominal thicknesses other than those listed in Table 2 may be agreed upon between the purchaser and manufacturer.
  3. The sheet and coil for roofing and architectural siding shall be accompanied by the symbol R for roofing and the symbol A for architectural siding after the symbols given in Table 2. In this case, the nominal thickness and the mass of coating shall be as specified in Annex 1.
  4. For the sheet and coil subjected to corrugating in accordance with JIS G 3316, the symbol W and the shape symbol for corrugated sheets shall be suffixed to the symbol of grade given in Table 2. In this case, the nominal thickness and the mass of coating shall be as specified in Annex 2.
  5. For corrugation, the commercial quality, commercial quality hard class, and structural quality among those listed in Table 2 shall be used.

3. Types of coating The coating shall be classified into two types which are non-alloyed ones and zinc-iron alloy ones equally coated on both surfaces.