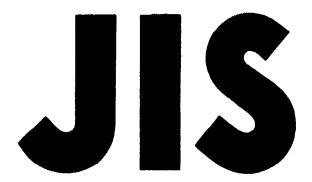
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## JAPANESE INDUSTRIAL STANDARD

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

(r) JIS G 3302-1994

Translated and Published

by

Japanese Standards Association

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## JAPANESE INDUSTRIAL STANDARD

JIS

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         |
| SGH400          |                                   | quality            |
| SGH440          |                                   |                    |
| SGH490          |                                   |                    |
| SGH540          |                                   |                    |

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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,<br>hard class |
| SGCD1           | 0.40 and over, up to and incl. 2.3 | Drawing quality,<br>class 1       |
| SGCD2           |                                    | Drawing quality,<br>class 2       |
| SGCD3           | 0.60 and over, up to and incl. 2.3 | Drawing quality,<br>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.