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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 77.140.50

H 46

GB/T 34200-2017

**Cold rolled stainless steel plate, sheet and
strip for construction roof and curtain**

建筑屋面和幕墙用冷轧不锈钢钢板和钢带

Issued on: September 7, 2017

Implemented on: June 1, 2018

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;**

**Standardization Administration of the People's Republic of
China.**

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Cold rolled stainless steel plate, sheet and strip for construction roof and curtain

1 Scope

This Standard specifies the ordering content, dimension, shape, weight, technical requirements, test methods, inspection rules, package, marking, and quality certificate of cold rolled stainless steel plate, sheet and strip for construction roof and curtain.

This Standard is applicable to the wide cold-rolled steel strip for construction roof and curtain with a thickness of 0.3mm to 4.0mm (hereinafter referred to as wide steel strip) as well as its coil slitting cut-to-size steel plate and sheet (hereinafter referred to as coil slitting steel plate and sheet), and wide cold-rolled steel strip with longitudinal shear (hereinafter referred to as wide steel strip with longitudinal shear).

2 Normative references

The following documents are essential to the application of this document. For dated references, only the editions with the dates indicated are applicable to this document. For undated references, only the latest editions (including all the amendments) are applicable to this document.

GB/T 222 *Permissible tolerances for chemical composition of steel products*

GB/T 223.3 *Methods for chemical analysis of iron, steel and alloy -- The diantipyrylmethane phosphomolybdate gravimetric method for the determination of phosphorus content*

GB/T 223.5 *Steel and iron -- Determination of acid-soluble silicon and total silicon content -- Reduced molybdsilicate spectrophotometric method*

GB/T 223.11 *Iron, steel and alloy -- Determination of chromium content -- Visual titration or potentiometric titration method*

GB/T 223.16 *Methods for chemical analysis of iron, steel and alloy -- The chromotropic acid photometric method for the determination of titanium content*

GB/T 223.18 *Methods for chemical analysis of iron, steel and alloy -- The*

sodium thiosulfate separation iodimetric method for the determination of copper content

GB/T 223.25 Methods for chemical analysis of iron, steel and alloy -- The dimethylglyoxime gravimetric method for the determination of nickel content

GB/T 223.26 Iron, steel and alloy -- Determination of molybdenum content - - The thiocyanate spectrophotometric method

GB/T 223.28 Methods for chemical analysis of iron, steel and alloy -- The α -benzoin oxime gravimetric method for the determination of molybdenum content

GB/T 223.36 Methods for chemical analysis of iron, steel and alloy -- The neutral titration method for the determination of nitrogen content after distillation separation

GB/T 223.40 Iron, steel and alloy -- Determination of niobium content by the sulphochlorophenol S spectrophotometric method

GB/T 223.53 Methods for chemical analysis of iron, steel and alloy -- The flame atomic absorption spectrophotometric method for the determination of copper content

GB/T 223.58 Methods for chemical analysis of iron, steel and alloy -- The sodium arsenite-sodium nitrite titrimetric method for the determination of manganese content

GB/T 223.68 Methods for chemical analysis of iron, steel and alloy -- The potassium iodate titration method after combustion in the pipe furnace for the determination of sulfur content

GB/T 223.69 Iron, steel and alloy -- Determination of carbon contents -- Gas-volumetric method after combustion in the pipe furnace

GB/T 228.1-2010 Metallic materials -- Tensile testing -- Part 1: Method of test at room temperature

GB/T 230.1 Metallic materials -- Rockwell hardness test -- Part 1: Test method (scales A, B, C, D, E, F, G, H, K, N, T)

GB/T 231.1 Metallic materials -- Brinell hardness test -- Part 1: Test method

GB/T 232 Metallic materials -- Bend test

GB/T 247 General rule of package mark and certification for steel plates (sheets) and strips

4# surface	General-purpose polishing on one or both sides	Discontinuous linear texture, and reflective	USE 150# to 320# abrasive belt for grinding and leveling
HL surface	Cold rolling, pickling, leveling, and grinding	Continuous abrasion pattern	USE 150# to 320# abrasive belt for polishing and leveling, so that the surface shows continuous abrasion pattern.
BA surface	Cold rolling, and bright annealing	Smooth, bright, and reflective	Bright annealing is performed in a controlled atmosphere furnace after cold rolling. Dry hydrogen or a mixture of dry hydrogen and dry nitrogen is generally used to prevent oxidation during annealing. It is also a commonly used surface processing for post-process reprocessing.

5.6.2 Surface quality of steel plates, sheets and strips

5.6.2.1 The steel plates and sheets shall not have defects that will affect their use. There may be some minor pitting of which the individual depth is less than half of the thickness tolerance, scratches, indentations, pits, roll marks, chromatic aberrations, and other defects that do not affect the use. Partial grinding is allowed, but the minimum thickness of the steel plate and sheet shall be guaranteed.

5.6.2.2 The steel strips shall not have any defects that will affect their use. However, the delivered steel strips in coil generally do not have the opportunity to remove defects, allowing for a small number of abnormalities. For steel strips that are not polished, it is allowed to have minor pitting of which the individual depth is less than half of the thickness tolerance, scratches, indentations, pits, roll marks, chromatic aberrations, and other defects that do not affect the use.

5.6.2.3 The edge of the steel strip shall be smooth. The edge of the trimming strip shall not have uneven cutting of which the depth is greater than half the width tolerance and burrs of which the depth is greater than the thickness tolerance of the steel strip. The un-trimming steel strips shall not have raw edges that are greater than the width tolerance.

5.7 Special requirements

According to the requirements of the demander, special requirements can be made on the chemical composition, mechanical properties, non-metallic inclusions, corrosion resistance, etc. of steel plates, sheets and strips. The specific content is negotiated between the supplier and the demander.

batch shall consist of steel plates (sheets) or strips of the same designation, same furnace number, same thickness, and same heat treatment system.

7.3 The sample size, sampling methods and parts of steel plates, sheets and strips shall comply with the provisions of Table 9.

7.4 The retesting and determination of steel plates, sheets and strips shall comply with the provisions of GB/T 17505.

7.5 The test results of mechanical properties and chemical compositions shall be rounded off using the rounding off comparison method. The rules for rounding off shall comply with the provisions of GB/T 8170.

8 Package, marking, and quality certificate

The package, marking, transportation, storage, and quality certificate of steel plates, sheets and strips shall comply with the provisions of GB/T 247.