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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JG/T 378-2012

**High-strength cold-rolled steel sheet for building structure
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard proposed by the Ministry of Housing and Urban Standard and Design Institute.

This standard by the Ministry of Housing and Urban Construction Building Products and Components Products Standardization Technical Committee.

This standard was drafted. China Building Standard Design Institute, BlueScope Steel (Suzhou) Co., Ltd., Lan Cui construction steel structure (Shanghai) Co., Co., Ltd., Baoshan Iron and Steel Co., Ltd., Butler (Shanghai) Co., Ltd., to real construction system (Shanghai) Co., Ltd.

1 Scope

This standard specifies the terms and definitions, classification and marking of the cold-rolled high strength building steel sheet (hereinafter referred to as high strength steel), general Requirements,, test methods, inspection rules, ordering content, logo, packaging and quality certificates, description of the use of the environment, similar to the domestic and foreign brands Control.

This standard applies to industrial and civil structures with the provisions of the minimum yield strength of not less than 450MPa, nominal thickness of 0.30mm ~ 3.00mm high strength galvanized steel, hot-dip galvanized steel, color coated hot-dip galvanized steel and color coated hot-dip galvanized steel.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 228.1 tensile testing of metallic materials - Part 1. room temperature test method (ISO 6892-1) GB/T 247 steel and strip inspection, packaging, marking and quality certificate of the general provisions GB/T 1766 Paints and varnishes coating aging rating method GB/T 1839 steel products quality test methods (ISO 1460) GB/T 2518-2008 Continuous hot-dip galvanized steel sheet and strip GB/T 2975 steel and steel products mechanical properties test sampling location and sample preparation GB/T 8170 rounded repair rules and limit values of the representation and judgment GB/T 13448 color coated steel sheet and strip test methods Continuous hot - dipped aluminum zinc alloy coated steel sheet and strip GB/T 17505 steel and steel products delivery general technical requirements

3 Terms and definitions

The following terms and definitions apply to this document.

Cold-rolled high-strength structural steel sheet for high-strengthcold-rolledsteelsheetforbuildingstructure for structural members, fencing panels, the nominal thickness of 0.30mm ~ 3.00mm, the provisions of the minimum yield strength of not less than 450MPa Hot dip galvanized, hot dip aluminized zinc, color coated hot dip galvanized, color coated hot dip galvanized steel sheet and strip.

Hot-dip galvanized steel hot-dipzinc-coated-steel-sheet in a continuous production line, the cold-rolled strip immersed in the zinc bath, the hot-dip galvanized steel sheet and strip.

Hot-dip aluminum-zinc alloy-coated-steel-sheet in the continuous production line, the cold-rolled steel strip is immersed in a mass fraction of about 55% aluminum, 1.6% silicon, the rest of the composition of zinc alloy plating Liquid, obtained by hot dip galvanized steel sheet and strip.