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Hot-Rolled H-Sections and Slit T-Sections for Building Use

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Foreword

This document is drafted in accordance with the provisions of GB/T 1.1-2020 Directives for Standardization - Part 1: Structure and Drafting Rules for Standardization Documents and GB/T 20001.10-2014 Rules for Drafting Standards - Part 10: Product Standards.

This document is proposed by the Institute of Standardization and Quota, Ministry of Housing and Urban-Rural Development.

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Hot-Rolled H-Sections and Slit T-Sections for Building Use

1 Scope

This document specifies the grades, designations and marking, ordering requirements, dimensions, shape, weight and permissible deviations, technical requirements, test methods, inspection rules, packaging, marking and quality certificates of hot-rolled H-sections and T-sections slit from hot-rolled H-sections for building engineering.

This document applies to hot-rolled H-sections for building engineering (hereinafter referred to as structural H-sections for building use) and T-sections slit from hot-rolled H-sections for building engineering (hereinafter referred to as structural T-sections for building use).

2 Normative References

The contents of the following documents constitute indispensable provisions of this document through normative reference in the text. For dated referenced documents, only the version corresponding to that date shall apply to this document; for undated referenced documents, their latest versions (including all amendment sheets) shall apply to this document.

GB/T 222 Chemical Composition Permissible Deviations for Finished Steel Products

GB/T 228.1 Metallic Materials - Tensile Testing - Part 1: Method of Test at Room Temperature

GB/T 229 Metallic Materials - Charpy Pendulum Impact Test Method

GB/T 232 Metallic Materials - Bend Test Method

GB/T 700 Carbon Structural Steels

GB/T 1591 High Strength Low Alloy Structural Steels

GB/T 2101 General Requirements for Acceptance, Packaging, Marking and Quality Certificates of Section Steel

GB/T 2975 Steel and Steel Products - Sampling Location and Preparation of Test Pieces for Mechanical Property Tests

GB/T 4171 Weathering Structural Steels

GB/T 4336 Determination of Multi-Element Content in Carbon Steels and Low and Medium Alloy Steels - Spark Discharge Atomic Emission Spectrometry (Routine Method)

GB/T 11263 Hot-Rolled H-Sections and Slit T-Sections

GB/T 19879 Steel Plates for Building Structures

GB/T 20066 Steel and Iron - Sampling and Sample Preparation for the Determination of Chemical Composition

GB 50017 Code for Design of Steel Structures

YB/T 4831 Hot-Rolled H-Sections with Through-Thickness Properties

YB/T 4832 Heavy Hot-Rolled H-Sections

3 Terms and Definitions

3.1 Grades

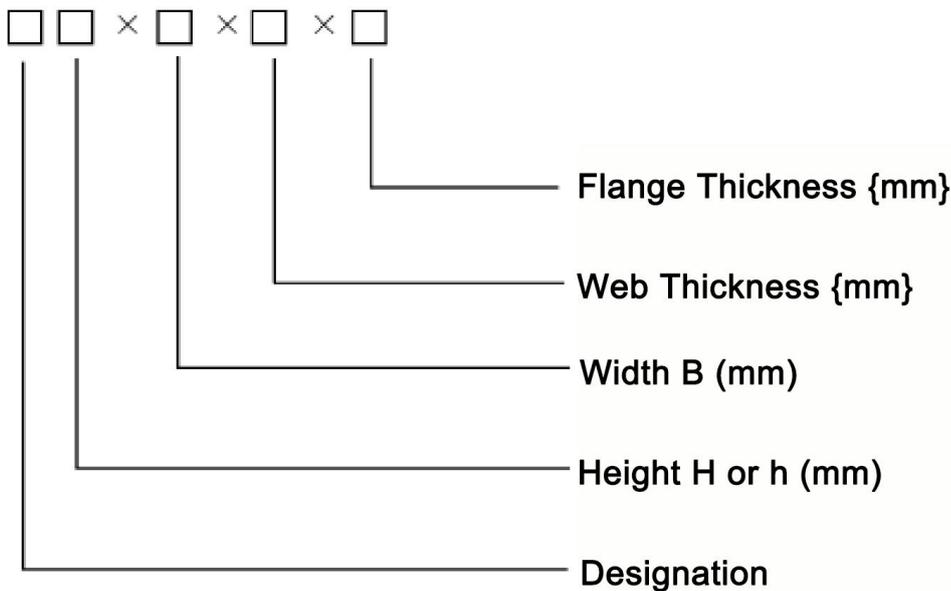
The steel grades of structural H-sections and T-sections for building use may be Q235, Q235GJ, Q355, Q345GJ, Q390, Q390GJ, Q420, Q420GJ, Q460 and Q460GJ. If there are special requirements for application and service environment, other steel grades complying with the relevant standards may also be adopted.

3.2 Designations

The designation for hot-rolled H-sections for building use is JH, and that for slit T-sections for building use is JT. The letter "J" stands for building use, "H" for hot-rolled H-sections, and "T" for slit T-sections.

3.3 Marking

The marking of structural H-sections and T-sections for building use shall consist of the designation and specification dimensions.



Example 1:

A structural H-section for building use with a height H of 600 mm, a width B of 300 mm, a web thickness t_1 of 12 mm and a flange thickness t_2 of 20 mm is marked as: JH600×300×12×20.

Example 2:

A structural T-section for building use with a height h of 400 mm, a width B of 300 mm, a web thickness t_1 of 14 mm and a flange thickness t_2 of 26 mm is marked as: JT400×300×14×26.

4 Ordering Requirements

Contracts for ordering products in accordance with this document shall include the following technical details:

- a) Product name and type;
- b) Steel grade and quality grade;
- c) Standard number;
- d) Specification;
- e) Delivery condition;
- f) Delivery length;
- g) Weight and quantity;
- h) Other special requirements proposed by the purchaser, such as special specifications, special surface quality and other relevant details.

5 Dimensions, Shape, Weight and Permissible Deviations

5.1 Dimensions and Expression Method

5.1.1 The section diagrams and marking symbols of structural H-sections and T-sections for building use are shown in Figure 1 and Figure 2.