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中华人民共和国国家标准

National Standard of the People's Republic of China

GB/T 6728-2025

GB/T 6728-2025

代替 GB/T 6728-2017, GB/T 6723-2017

Replaces GB/T 6728-2017, GB/T 6723-2017

结构用冷弯型钢

Cold forming sectional steel for general structure

2025-08-29 发布

Issued on 2025-08-29

2026-03-01 实施

Implemented on 2026-03-01

国家市场监督管理总局

State Administration for Market Regulation

国家标准化管理委员会

Standardization Administration of China

发 布

Issued

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前言

Foreword

本文件按照 GB/T 1.1-2020《标准化工作导则 第 1 部分:标准化文件的结构和起草规则》的规定起草。

This document was drafted in accordance with the rules given in GB/T 1.1-2020 "Directives for standardization—Part 1: Rules for the structure and drafting of standardization documents".

本文件代替 GB/T 6728-2017《结构用冷弯空心型钢》和 GB/T 6723-2017《通用冷弯开口型钢》。本文件以 GB/T 6728-2017 为主，整合了 GB/T 6723-2017 的内容，与 GB/T 6728-2017 相比，除结构调整和编辑性改动外，主要技术变化如下:

This document replaces GB/T 6728-2017 "Cold-formed hollow structural steel sections" and GB/T 6723-2017 "General cold-formed open steel sections". This document is based on GB/T 6728-2017 and incorporates the contents of GB/T 6723-2017. Compared with GB/T 6728-2017, in addition to structural adjustments and editorial changes, the main technical changes are as follows:

——增加了型钢尺寸规格(见表 1、表 2、表 3);

— Added dimensions and specifications for steel sections (see Table 1, Table 2, Table 3);

——更改了型钢测量位置(见表 5、表 6、表 20);

— Changed the measurement positions for steel sections (see Table 5, Table 6, Table 20);

——增加了圆形型钢的不圆度要求(见表 24);

— Added requirements for out-of-roundness of circular steel sections (see Table 24);

——增加了激光切割或等离子切割的有关要求(见 6.3.3);

— Added requirements for laser cutting or plasma cutting (see 6.3.3);

——更改了牌号和化学成分的有关要求(见 6.5，GB/T 6728—2017 的 9.1);

— Changed requirements for steel grades and chemical composition (see 6.5, 9.1 of GB/T 6728—2017);

——增加了制造工艺 (见 6.7);

— Added manufacturing process (see 6.7);

——增加了力学性能要求(见 6.8)；

— Added mechanical property requirements (see 6.8);

——更改了镀锌层重量要求(见 6.11，GB/T 6728—2017 的 9.2)；

— Changed requirements for galvanized layer weight (see 6.11, 9.2 of GB/T 6728—2017);

——增加了镀锌层重量复验与判定规则(见 8.3)；

——Added re-inspection and judgment rules for galvanized layer weight (see 8.3);

——更改了壁厚允许偏差要求(见附录 B，GB/T 6728—2017 的 5.6)。

——Changed the requirements for allowable wall thickness deviation (see Appendix B, 5.6 of GB/T 6728—2017).

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本文件由中国钢铁工业协会提出。

This document was proposed by the China Iron and Steel Industry Association.

本文件由全国钢标准化技术委员会(SAC/TC 183)归口。

This document is under the jurisdiction of the National Technical Committee on Steel of Standardization Administration of China (SAC/TC 183).

本文件起草单位:天津友发钢管集团股份有限公司、邯郸正大制管集团股份有限公司、天津源泰德润钢管制造集团有限公司、武汉钢铁江北集团冷弯型钢有限公司、佛山市鼎联钢管有限公司、佛山市三水振鸿钢制品有限公司、莱芜市方圆金属制品有限公司、中建钢构股份有限公司、冶金工业信息标准研究院、山西鼎荣冷弯型钢有限公司。

Drafting organizations of this document: Tianjin Youfa Steel Pipe Group Co., Ltd., Handan Zhengda Steel Pipe Group Co., Ltd., Tianjin Yuantai Derun Steel Pipe Manufacturing Group Co., Ltd., Wuhan Iron and Steel Jiangbei Group Cold-Formed Steel Co., Ltd., Foshan Dinglian Steel Pipe Co., Ltd., Foshan Sanshui Zhenhong Steel Products Co., Ltd., Laiwu Fangyuan Metal Products Co., Ltd., China Construction Steel Structure Corp.

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本文件所代替文件的历次版本发布情况为:

The previous versions of the document replaced by this document are as follows:

——GB/T 6723,1986 年首次发布,2002 年第 1 次修订,2017 年第 2 次修订。

——GB/T 6723, first published in 1986, first revision in 2002, second revision in 2017.

——GB/T 6728,1986 年首次发布,2002 年第 1 次修订,2017 年第 2 次修订。

——GB/T 6728, first published in 1986, first revision in 2002, second revision in 2017.

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结构用冷弯型钢

Cold-formed steel sections for structural purposes

1 范围

1 Scope

本文件规定了结构用冷弯型钢(以下简称型钢)的订货内容、分类、代号、技术要求、检验规则、包装、 标志、运输、贮存及质量证明书，描述了相应的试验方法。

This document specifies the ordering content, classification, codes, technical requirements, inspection rules, packaging, marking, transportation, storage, and quality certificates for cold-formed steel sections for structural purposes (hereinafter referred to as steel sections), and describes the corresponding test methods.

本文件适用于冷轧或热轧钢板和钢带在连续辊式冷弯机组上生产的通用冷弯开口型钢(以下简称开口型钢)、圆形、矩形和方形冷弯闭口型钢 (以下简称闭口型钢), 也适用于连续热浸镀锌型钢 (以下简称为镀锌型钢)。

This document is applicable to general cold-formed open steel sections (hereinafter referred to as open steel sections), and circular, rectangular, and square cold-formed closed steel sections (hereinafter referred to as closed steel sections) produced from cold-rolled or hot-rolled steel sheets and strips on continuous roll-forming units; it is also applicable to continuous hot-dip galvanized steel sections (hereinafter referred to as galvanized steel sections).

本文件不适用于采用镀锌钢板及钢带冷弯并焊接成型的型钢。

This document is not applicable to steel sections cold-formed and welded from galvanized steel sheets and strips.

2 规范性引用文件

2 Normative references

下列文件的内容通过文中的规范性引用而构成本文件必不可少的条款。其中, 注日期的引用文件，仅该日期对应的版本适用于本文件；不注日期的引用文件，其最新版本(包括所有的修改单)适用于本文件。

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 222 钢及合金 成品化学成分允许偏差

GB/T 222 Permissible deviations for chemical composition of steel products

GB/T 228.1 金属材料 拉伸试验 第 1 部分:室温试验方法

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

GB/T 229 金属材料 夏比摆锤冲击试验方法

GB/T 229 Metallic materials—Charpy pendulum impact test method

GB/T 470-2008 锌锭

GB/T 470-2008 Zinc ingots

GB/T 699 优质碳素结构钢

GB/T 699 Quality carbon structural steels

GB/T 700 碳素结构钢

GB/T 700 Carbon structural steels

GB/T 709 热轧钢板和钢带的尺寸、外形、重量及允许偏差

GB/T 709 Dimensions, shape, weight and tolerances for hot-rolled steel plates and strips

GB/T 714 桥梁用结构钢

GB/T 714 Structural steel for bridge

GB/T 1591 低合金高强度结构钢

GB/T 1591 High strength low alloy structural steels

GB/T 2101 型钢验收、包装、标志及质量证明书的一般规定

GB/T 2101 General provisions for acceptance, packaging, marking and certification of section steel

GB/T 2102 钢管的验收、包装、标志和质量证明书

GB/T 2102 Acceptance, packaging, marking and certification of steel pipes

GB/T 2975 钢及钢产品 力学性能试验取样位置及试样制备

GB/T 2975 Steel and steel products—Location and preparation of samples and test pieces for mechanical testing

GB/T 3280 不锈钢冷轧钢板和钢带

GB/T 3280 Cold rolled stainless steel plate, sheet and strip

GB/T 4171 耐候结构钢

GB/T 4171 Atmospheric corrosion resisting structural steel

GB/T 8170 数值修约规则与极限数值的表示和判定

GB/T 8170 Rules of rounding off for numerical values and expression and judgement of limiting values

GB/T 20066 钢和铁 化学成分测定用试样的取样和制样方法

GB/T 20066 Steel and iron - Sampling and preparation of samples for the determination of chemical composition

GB/T 20878 不锈钢 牌号及化学成分

GB/T 20878 Stainless steel - Grades and chemical composition

GB/T 33162 冷弯型钢用热连轧钢板及钢带

GB/T 33162 Hot-rolled steel plates and strips for cold formed steel sections

3 术语和定义

3 Terms and definitions

下列术语和定义适用于本文件。

The following terms and definitions apply to this document.

3.1 自由边

3.1 free edge

开口型钢中,只有一端存在圆弧角 $(R角)$ 的边。

An edge in an open steel section that has a rounded corner at only one end.

3.2 非自由边

3.2 non-free edge

开口型钢中，两端均存在圆弧角 (R 角) 的边。

An edge in an open steel section that has rounded corners (R corners) at both ends.

4 订货内容

4 Ordering information

按本文件订货的合同或订单包括下列内容:

Contracts or orders placed under this document shall include the following information:

a)本文件编号；

a) Number of this document;

b) 产品名称;

b) Product name;

c) 钢的牌号;

c) Steel grade;

d) 交货重量;

d) Delivery weight;

e) 尺寸与外形;

e) Dimensions and shape;

f) 特殊要求。

f) Special requirements.

5 分类、代号

5 Classification and codes

5.1 闭口型钢按外形形状分为方形、矩形、圆形, 其代号分别为:

Closed steel sections are classified by shape into square, rectangular, and circular, with the following codes:

a)方形型钢(也可简称为方管):F；

a) Square steel section (also referred to as square tube): F;

b) 矩形型钢(也可简称为矩管):J；

b) Rectangular steel section (also referred to as rectangular tube): J;

c) 圆形型钢(也可简称为圆管):Y(或 ϕ)；

c) Circular steel section (also referred to as circular tube): Y (or ϕ);

5.2 开口型钢按其截面形状分为 9 种, 其代号分别为:

Open steel sections are classified into 9 types by cross-sectional shape, with the following codes:

a)冷弯等边角钢:JD；

a) Cold-formed equal-leg angle steel: JD;

b) 冷弯不等边角钢: JB;

b) Cold-formed unequal-leg angle steel: JB;

c) 冷弯等边槽钢:CD;

c) Cold-formed equal-leg channel steel: CD;

d)冷弯不等边槽钢:CB；

d) Cold-formed unequal-leg channel steel: CB;

e)冷弯内卷边槽钢:CN；

e) Cold-formed inward-lipped channel steel: CN;

f) 冷弯外卷边槽钢:CW；

f) Cold-formed outward-lipped channel steel: CW;

g)冷弯 Z 形钢:Z；

g) Cold-formed Z-section steel: Z;

h)冷弯卷边 Z 形钢: ZJ ；

h) Cold-formed lipped Z -section steel: ZJ ;

i) 冷弯卷边等边角钢:JJ。

i) Cold-formed lipped equal-leg angle steel: JJ

6 技术要求

6 Technical Requirements

6.1 截面、尺寸及允许偏差

6.1 Cross-section, Dimensions and Permissible Deviations

6.1.1 闭口型钢

6.1.1 Closed Steel Sections

6.1.1.1 方形型钢的截面图见图 1，截面尺寸、允许偏差、理论重量、截面面积及截面特性应符合表 1 的规定。截面面积、截面特性参数及每米长度的表面积仅供参考。

6.1.1.1 The cross-section of square steel sections is shown in Figure 1. The cross-sectional dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties shall comply with the provisions of Table 1. The cross-sectional area, section property parameters, and surface area per meter are for reference only.

6.1.1.2 矩形型钢的截面图见图 2，截面尺寸、允许偏差、理论重量、截面面积及截面特性应符合表 2 的规定。截面面积、截面特性参数及每米长度的表面积仅供参考。

6.1.1.2 The cross-section of rectangular steel sections is shown in Figure 2. The cross-sectional dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties shall comply with the provisions of Table 2. The cross-sectional area, section property parameters, and surface area per meter are for reference only.

6.1.1.3 圆形型钢的截面图见图 3，截面尺寸、允许偏差、理论重量、截面面积及截面特性应符合表 3 的规定。截面面积、截面特性参数及每米长度的表面积仅供参考。

6.1.1.3 The cross-section of circular steel sections is shown in Figure 3. The cross-sectional dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties shall comply with the provisions of Table 3. The cross-sectional area, section property parameters, and surface area per meter are for reference only.

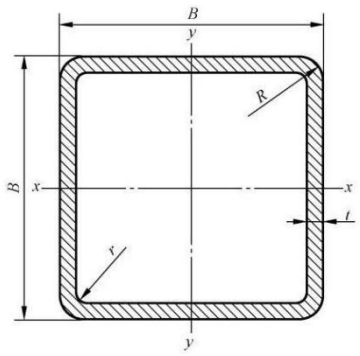
6.1.1.4 闭口型钢的截面特性可参照附录 A 计算。经供需双方协商并在合同中注明，可提供表 1、 表 2、表 3 规定以外尺寸及允许偏差的型钢。

6.1.1.4 The section properties of closed steel sections may be calculated by referring to Appendix A. Upon agreement between the supplier and the purchaser and specified in the

contract, steel sections with dimensions and permissible deviations other than those specified in Table 1, Table 2, and Table 3 may be provided.

6.1.1.5 闭口型钢壁厚的允许偏差应符合附录 B 的规定。

6.1.1.5 The permissible deviations for the wall thickness of closed steel sections shall comply with the provisions of Appendix B.



标引符号说明:

Explanation of symbols:

B ——边长;

B — side length;

t ——壁厚;

t — wall thickness;

R ——外圆弧半径;

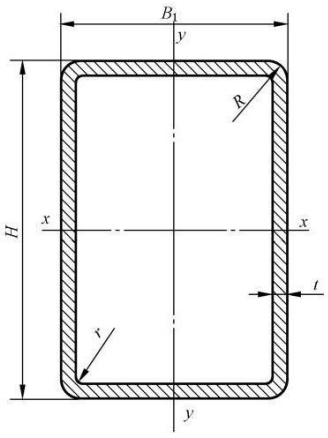
R — outer arc radius;

r ——内圆弧半径;

r — inner arc radius;

图 1 方形型钢

Figure 1 Square steel section



标引符号说明:

Explanation of symbols:

H —— 长边边长;

H —— long side length;

B_1 —— 短边边长;

B_1 —— Short side length;

t _____壁厚;

t _____wall thickness;

R ——外圆弧半径;

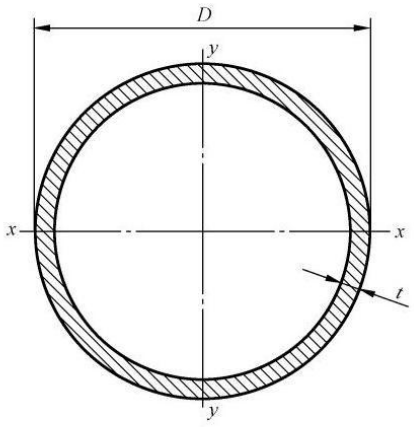
R —outer arc radius;

r ——内圆弧半径;

r —inner arc radius;

图 2 矩形型钢

Fig. 2 Rectangular steel section



标引符号说明:

D ——外径;

t ——壁厚;

图 3 圆形型钢

Fig. 3 Circular steel section

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性

Table 1 Sectional dimensions, permissible deviations, theoretical weight, cross-sectional area, and sectional properties of square steel sections

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边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	±△	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
20	±0.50	1.2	0.679	0.865	0.507	0.766	0.507	0.823	0.753	2.40	1.20	75 879
		1.5	0.826	1.052	0.605	0.758	0.605	0.985	0.884	3.00	1.50	74 849
		1.7	0.918	1.170	0.668	0.755	0.668	1.083	0.961	3.40	1.70	74 162
		2.0	1.050	1.337	0.762	0.755	0.762	1.215	1.060	4.00	2.00	73 132
25	±0.50	1.2	0.868	1.105	1.034	0.967	0.828	1.661	1.236	2.40	1.20	95 879
		1.5	1.061	1.352	1.239	0.957	0.991	2.008	1.471	3.00	1.50	94 849
		1.7	1.185	1.510	1.368	0.952	1.094	2.225	1.612	3.40	1.70	94 162
		2.0	1.364	1.737	1.553	0.946	1.243	2.526	1.804	4.00	2.00	93 132
30	±0.50	1.5	1.297	1.652	2.218	1.159	1.479	3.568	2.207	3.00	1.50	114 849
		1.7	1.452	1.850	2.454	1.152	1.636	3.970	2.433	3.40	1.70	114 162
		1.8	1.528	1.947	2.569	1.149	1.713	4.165	2.541	3.60	1.80	113 819
		2.0	1.678	2.137	2.792	1.143	1.861	4.540	2.747	4.00	2.00	113 132
		2.2	1.823	2.322	3.009	1.138	2.006	4.898	2.938	4.40	2.20	112 445

		2.5	2.032	2.589	3.327	1.134	2.218	5.401	3.202	5.00	2.50	111 415
		2.75	2.200	2.803	3.590	1.132	2.394	5.790	3.399	5.50	2.75	110 557
		3.0	2.361	3.008	3.858	1.133	2.572	6.150	3.577	6.00	3.00	109 699
40	±0.50	1.5	1.768	2.252	5.512	1.565	2.756	8.746	4.128	3.00	1.50	154 849
		1.7	1.986	2.530	6.128	1.556	3.064	9.782	4.584	3.40	1.70	154 162
		1.8	2.094	2.667	6.428	1.552	3.214	10.288	4.804	3.60	1.80	153 819
		2.0	2.306	2.937	7.010	1.545	3.505	11.277	5.230	4.00	2.00	153 132

Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter mm^2/m
B	±△	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	As
20	±0.50	1.2	0.679	0.865	0.507	0.766	0.507	0.823	0.753	2.40	1.20	75879
		1.5	0.826	1.052	0.605	0.758	0.605	0.985	0.884	3.00	1.50	74 849
		1.7	0.918	1.170	0.668	0.755	0.668	1.083	0.961	3.40	1.70	74162
		2.0	1.050	1.337	0.762	0.755	0.762	1.215	1.060	4.00	2.00	73 132

25	±0.50	1.2	0.868	1.105	1.034	0.967	0.828	1.661	1.236	2.40	1.20	95879
		1.5	1.061	1.352	1.239	0.957	0.991	2.008	1.471	3.00	1.50	94849
		1.7	1.185	1.510	1.368	0.952	1.094	2.225	1.612	3.40	1.70	94 162
		2.0	1.364	1.737	1.553	0.946	1.243	2.526	1.804	4.00	2.00	93 132
30	±0.50	1.5	1.297	1.652	2.218	1.159	1.479	3.568	2.207	3.00	1.50	114 849
		1.7	1.452	1.850	2.454	1.152	1.636	3.970	2.433	3.40	1.70	114 162
		1.8	1.528	1.947	2.569	1.149	1.713	4.165	2.541	3.60	1.80	113819
		2.0	1.678	2.137	2.792	1.143	1.861	4.540	2.747	4.00	2.00	113 132
		2.2	1.823	2.322	3.009	1.138	2.006	4.898	2.938	4.40	2.20	112 445
		2.5	2.032	2.589	3.327	1.134	2.218	5.401	3.202	5.00	2.50	111 415
		2.75	2.200	2.803	3.590	1.132	2.394	5.790	3.399	5.50	2.75	110 557
		3.0	2.361	3.008	3.858	1.133	2.572	6.150	3.577	6.00	3.00	109 699
40	±0.50	1.5	1.768	2.252	5.512	1.565	2.756	8.746	4.128	3.00	1.50	154 849
		1.7	1.986	2.530	6.128	1.556	3.064	9.782	4.584	3.40	1.70	154 162
		1.8	2.094	2.667	6.428	1.552	3.214	10.288	4.804	3.60	1.80	153819
		2.0	2.306	2.937	7.010	1.545	3.505	11.277	5.230	4.00	2.00	153 132

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表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性 (续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (cont.)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
40	±0.50	2.2	2.513	3.202	7.573	1.538	3.787	12.235	5.637	4.40	2.20	152445
		2.5	2.817	3.589	8.386	1.529	4.193	13.614	6.210	5.00	2.50	151415
		2.75	3.064	3.903	9.040	1.522	4.520	14.709	6.656	5.50	2.75	150557
		3.0	3.303	4.208	9.678	1.516	4.839	15.755	7.074	6.00	3.00	149 699
		3.5	3.764	4.795	10.930	1.510	5.465	17.697	7.828	7.00	3.50	147 982
		3.75	3.984	5.075	11.557	1.509	5.779	18.593	8.166	7.50	3.75	147 123
		4.0	4.198	5.348	12.194	1.510	6.097	19.438	8.479	8.00	4.00	146265

50	±0.50	1.5	2.239	2.852	11.088	1.972	4.435	17.417	6.649	3.00	1.50	194 849
		1.7	2.520	3.210	12.369	1.963	4.948	19.537	7.414	3.40	1.70	194 162
		1.8	2.659	3.387	12.995	1.959	5.198	20.578	7.787	3.60	1.80	193 819
		2.0	2.934	3.737	14.217	1.950	5.687	22.626	8.513	4.00	2.00	193 132
		2.2	3.204	4.082	15.402	1.943	6.161	24.625	9.213	4.40	2.20	192 445
		2.5	3.602	4.589	17.115	1.931	6.846	27.532	10.216	5.00	2.50	191 415
		2.75	3.927	5.003	18.489	1.922	7.396	29.872	11.009	5.50	2.75	190 557
		3.0	4.245	5.408	19.821	1.914	7.929	32.135	11.765	6.00	3.00	189 699
		3.5	4.863	6.195	22.384	1.901	8.954	36.431	13.168	7.00	3.50	187 982
		3.75	5.162	6.575	23.628	1.896	9.451	38.463	13.816	7.50	3.75	187 123

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		4	5.454	6.948	24.856	1.891	9.942	40.418	14.431	8.00	4.00	186 265
		4.5	6.020	7.669	27.296	1.887	10.918	44.094	15.560	9.00	4.50	184 548
		4.75	6.293	8.016	28.525	1.886	11.410	45.815	16.076	9.50	4.75	183 690
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
40	±0.50	2.2	2.513	3.202	7.573	1.538	3.787	12.235	5.637	4.40	2.20	152445
		2.5	2.817	3.589	8.386	1.529	4.193	13.614	6.210	5.00	2.50	151415
		2.75	3.064	3.903	9.040	1.522	4.520	14.709	6.656	5.50	2.75	150557
		3.0	3.303	4.208	9.678	1.516	4.839	15.755	7.074	6.00	3.00	149 699
		3.5	3.764	4.795	10.930	1.510	5.465	17.697	7.828	7.00	3.50	147 982

		3.75	3.984	5.075	11.557	1.509	5.779	18.593	8.166	7.50	3.75	147 123
		4.0	4.198	5.348	12.194	1.510	6.097	19.438	8.479	8.00	4.00	146265
50	±0.50	1.5	2.239	2.852	11.088	1.972	4.435	17.417	6.649	3.00	1.50	194 849
		1.7	2.520	3.210	12.369	1.963	4.948	19.537	7.414	3.40	1.70	194 162
		1.8	2.659	3.387	12.995	1.959	5.198	20.578	7.787	3.60	1.80	193 819
		2.0	2.934	3.737	14.217	1.950	5.687	22.626	8.513	4.00	2.00	193 132
		2.2	3.204	4.082	15.402	1.943	6.161	24.625	9.213	4.40	2.20	192 445
		2.5	3.602	4.589	17.115	1.931	6.846	27.532	10.216	5.00	2.50	191 415
		2.75	3.927	5.003	18.489	1.922	7.396	29.872	11.009	5.50	2.75	190 557
		3.0	4.245	5.408	19.821	1.914	7.929	32.135	11.765	6.00	3.00	189 699

		3.5	4.863	6.195	22.384	1.901	8.954	36.431	13.168	7.00	3.50	187 982
		3.75	5.162	6.575	23.628	1.896	9.451	38.463	13.816	7.50	3.75	187 123
		4	5.454	6.948	24.856	1.891	9.942	40.418	14.431	8.00	4.00	186 265
		4.5	6.020	7.669	27.296	1.887	10.918	44.094	15.560	9.00	4.50	184 548
		4.75	6.293	8.016	28.525	1.886	11.410	45.815	16.076	9.50	4.75	183 690

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
60	±0.60	2.0	3.562	4.537	25.212	2.357	8.404	39.786	12.594	4.00	2.00	233132

		2.2	3.895	4.962	27.374	2.349	9.125	43.386	13.668	4.40	2.20	232445
		2.5	4.387	5.589	30.513	2.337	10.171	48.656	15.219	5.00	2.50	231415
		2.75	4.791	6.103	33.039	2.327	11.013	52.928	16.459	5.50	2.75	230557
		3.0	5.187	6.608	35.489	2.317	11.830	57.091	17.652	6.00	3.00	229699
		3.5	5.962	7.595	40.190	2.300	13.397	65.088	19.901	7.00	3.50	227982
		3.75	6.339	8.075	42.454	2.293	14.151	68.921	20.959	7.50	3.75	227123
		4.0	6.710	8.548	44.671	2.286	14.890	72.644	21.973	8.00	4.00	226265
		4.5	7.433	9.469	48.994	2.275	16.331	79.757	23.875	9.00	4.50	224548
		4.75	7.784	9.916	51.118	2.270	17.039	83.146	24.764	9.50	4.75	223690
		5.0	8.130	10.356	53.228	2.267	17.743	86.424	25.612	10.00	5.00	222831
70	±0.65	2.5	5.172	6.589	49.581	2.743	14.166	78.485	21.222	5.00	2.50	271415

		2.75	5.654	7.203	53.788	2.733	15.368	85.528	23.008	5.50	2.75	270557
		3.0	6.129	7.808	57.881	2.723	16.537	92.423	24.738	6.00	3.00	269699
		3.5	7.061	8.995	65.748	2.704	18.785	105.768	28.031	7.00	3.50	267982
		3.75	7.517	9.575	69.537	2.695	19.868	112.217	29.597	7.50	3.75	267123
		4.0	7.966	10.148	73.240	2.686	20.926	118.517	31.110	8.00	4.00	266265
		4.5	8.846	11.269	80.421	2.671	22.978	130.667	33.981	9.00	4.50	264548
		4.75	9.276	11.816	83.917	2.665	23.976	136.516	35.340	9.50	4.75	263690
		5.0	9.700	12.356	87.363	2.659	24.961	142.213	36.651	10.00	5.00	262831
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	±Δ	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s

60	±0.60	2.0	3.562	4.537	25.212	2.357	8.404	39.786	12.594	4.00	2.00	233132
		2.2	3.895	4.962	27.374	2.349	9.125	43.386	13.668	4.40	2.20	232445
		2.5	4.387	5.589	30.513	2.337	10.171	48.656	15.219	5.00	2.50	231415
		2.75	4.791	6.103	33.039	2.327	11.013	52.928	16.459	5.50	2.75	230557
		3.0	5.187	6.608	35.489	2.317	11.830	57.091	17.652	6.00	3.00	229699
		3.5	5.962	7.595	40.190	2.300	13.397	65.088	19.901	7.00	3.50	227982
		3.75	6.339	8.075	42.454	2.293	14.151	68.921	20.959	7.50	3.75	227123
		4.0	6.710	8.548	44.671	2.286	14.890	72.644	21.973	8.00	4.00	226265
		4.5	7.433	9.469	48.994	2.275	16.331	79.757	23.875	9.00	4.50	224548
		4.75	7.784	9.916	51.118	2.270	17.039	83.146	24.764	9.50	4.75	223690
		5.0	8.130	10.356	53.228	2.267	17.743	86.424	25.612	10.00	5.00	222831

70	±0.65	2.5	5.172	6.589	49.581	2.743	14.166	78.485	21.222	5.00	2.50	271415
		2.75	5.654	7.203	53.788	2.733	15.368	85.528	23.008	5.50	2.75	270557
		3.0	6.129	7.808	57.881	2.723	16.537	92.423	24.738	6.00	3.00	269699
		3.5	7.061	8.995	65.748	2.704	18.785	105.768	28.031	7.00	3.50	267982
		3.75	7.517	9.575	69.537	2.695	19.868	112.217	29.597	7.50	3.75	267123
		4.0	7.966	10.148	73.240	2.686	20.926	118.517	31.110	8.00	4.00	266265
		4.5	8.846	11.269	80.421	2.671	22.978	130.667	33.981	9.00	4.50	264548
		4.75	9.276	11.816	83.917	2.665	23.976	136.516	35.340	9.50	4.75	263690
		5.0	9.700	12.356	87.363	2.659	24.961	142.213	36.651	10.00	5.00	262831

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
75	±0.65	2.5	5.565	7.089	61.553	2.947	16.414	97.133	24.598	5.00	2.50	291415
		3.0	6.600	8.408	71.973	2.926	19.193	114.543	28.730	6.00	3.00	289699
		4.0	8.594	10.948	91.307	2.888	24.349	147.321	36.277	8.00	4.00	286265
		5.0	10.485	13.356	109.059	2.858	29.083	177.354	42.916	10.00	5.00	282831
80	±0.70	2.5	5.957	7.589	75.318	3.150	18.830	118.520	28.224	5.00	2.50	311415
		2.75	6.518	8.303	81.838	3.140	20.460	129.322	30.656	5.50	2.75	310557
		3.0	7.071	9.008	88.197	3.129	22.049	139.931	33.022	6.00	3.00	309699
		3.5	8.160	10.395	100.458	3.109	25.115	160.571	37.559	7.00	3.50	307982

		3.75	8.694	11.075	106.376	3.099	26.594	170.601	39.732	7.50	3.75	307123
		4.0	9.222	11.748	112.163	3.090	28.041	180.436	41.843	8.00	4.00	306265
		4.5	10.259	13.069	123.378	3.073	30.844	199.522	45.881	9.00	4.50	304548
		4.75	10.767	13.716	128.824	3.065	32.206	208.772	47.810	9.50	4.75	303690
		5.0	11.270	14.356	134.176	3.057	33.544	217.826	49.680	10.00	5.00	302831
		5.5	12.255	15.611	144.636	3.044	36.159	235.344	53.249	11.00	5.50	301114
		5.75	12.737	16.226	149.767	3.038	37.442	243.807	54.948	11.50	5.75	300256
		6.0	13.214	16.830	149.24	2.980	37.31	252.070	56.590	12.00	6.00	299398
90	±0.75	3.0	8.013	10.208	127.637	3.536	28.364	201.415	42.506	6.00	3.00	349699
		4.0	10.478	13.348	163.040	3.495	36.231	260.801	54.173	8.00	4.00	346265
		5.0	12.840	16.356	195.667	3.459	43.481	316.260	64.705	10.00	5.00	342831

		6.0	15.098	19.233	226.146	3.429	50.255	367.762	74.159	12.00	6.00	339398
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
75	±0.65	2.5	5.565	7.089	61.553	2.947	16.414	97.133	24.598	5.00	2.50	291415
		3.0	6.600	8.408	71.973	2.926	19.193	114.543	28.730	6.00	3.00	289699
		4.0	8.594	10.948	91.307	2.888	24.349	147.321	36.277	8.00	4.00	286265
		5.0	10.485	13.356	109.059	2.858	29.083	177.354	42.916	10.00	5.00	282831
80	±0.70	2.5	5.957	7.589	75.318	3.150	18.830	118.520	28.224	5.00	2.50	311415
		2.75	6.518	8.303	81.838	3.140	20.460	129.322	30.656	5.50	2.75	310557
		3.0	7.071	9.008	88.197	3.129	22.049	139.931	33.022	6.00	3.00	309699
		3.5	8.160	10.395	100.45	3.109	25.11	160.571	37.559	7.00	3.50	307

					8		5					982
		3.75	8.694	11.075	106.376	3.099	26.594	170.601	39.732	7.50	3.75	307123
		4.0	9.222	11.748	112.163	3.090	28.041	180.436	41.843	8.00	4.00	306265
		4.5	10.259	13.069	123.378	3.073	30.844	199.522	45.881	9.00	4.50	304548
		4.75	10.767	13.716	128.824	3.065	32.206	208.772	47.810	9.50	4.75	303690
		5.0	11.270	14.356	134.176	3.057	33.544	217.826	49.680	10.00	5.00	302831
		5.5	12.255	15.611	144.636	3.044	36.159	235.344	53.249	11.00	5.50	301114
		5.75	12.737	16.226	149.767	3.038	37.442	243.807	54.948	11.50	5.75	300256
		6.0	13.214	16.830	149.24	2.980	37.31	252.070	56.590	12.00	6.00	299398
90	±0.75	3.0	8.013	10.208	127.637	3.536	28.364	201.415	42.506	6.00	3.00	349699
		4.0	10.478	13.348	163.040	3.495	36.231	260.801	54.173	8.00	4.00	346265

		5.0	12.840	16.356	195.667	3.459	43.481	316.260	64.705	10.00	5.00	342831
		6.0	15.098	19.233	226.146	3.429	50.255	367.762	74.159	12.00	6.00	339398

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
90	±0.75	8.0	18.873	24.040	255.070	3.260	56.680	455.590	88.830	20.00	12.00	325663
100	±0.80	3.5	10.358	13.195	202.936	3.922	40.587	320.945	60.810	7.00	3.50	387982
		3.75	11.049	14.075	215.324	3.911	43.065	341.629	64.497	7.50	3.75	387123
		4.0	11.734	14.948	227.471	3.901	45.494	362.012	68.101	8.00	4.00	386265
		4.5	13.085	16.669	251.07	3.881	50.21	401.871	75.070	9.00	4.50	384

					9		6					548
		4.75	13.750	17.516	262.558	3.872	52.512	421.346	78.436	9.50	4.75	383690
		5.0	14.410	18.356	273.836	3.862	54.767	440.517	81.724	10.00	5.00	382831
		5.5	15.709	20.011	295.827	3.845	59.165	477.947	88.071	11.00	5.50	381114
		5.75	16.348	20.826	306.563	3.837	61.313	496.205	91.132	11.50	5.75	380256
		6.0	16.982	21.633	317.143	3.829	63.429	514.156	94.119	12.00	6.00	379398
		8.0	21.385	27.240	366.430	3.670	73.290	644.510	114.230	20.00	12.00	365663
		10.0	25.565	32.570	412.260	3.560	82.450	749.840	130.100	25.00	15.00	357079
110	±0.90	4.0	12.990	16.548	307.056	4.308	55.828	486.469	83.628	8.00	4.00	426265
		5.0	15.980	20.356	370.683	4.267	67.397	593.596	100.741	10.00	5.00	422831
		6.0	18.866	24.033	430.236	4.231	78.225	694.854	116.472	12.00	6.00	419398

		8.0	23.897	30.440	506.120	4.080	92.020	878.700	142.820	20.00	12.00	405 663
		10.0	28.705	36.570	575.980	3.970	104.72	1 032.26	164.330	25.00	15.00	397 079
120	±0.90	3.5	12.556	15.995	358.823	4.736	59.804	563.011	89.658	7.00	3.50	467 982
		3.75	13.404	17.075	381.298	4.725	63.550	600.008	95.257	7.50	3.75	467 123
		4.0	14.246	18.148	403.396	4.715	67.233	636.572	100.754	8.00	4.00	466 265
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
90	±0.75	8.0	18.873	24.040	255.070	3.260	56.680	455.590	88.830	20.00	12.00	325 663
100	±0.80	3.5	10.358	13.195	202.936	3.922	40.587	320.945	60.810	7.00	3.50	387 982
		3.75	11.049	14.075	215.324	3.911	43.065	341.629	64.497	7.50	3.75	387 123

		4.0	11.734	14.948	227.471	3.901	45.494	362.012	68.101	8.00	4.00	386265
		4.5	13.085	16.669	251.079	3.881	50.216	401.871	75.070	9.00	4.50	384548
		4.75	13.750	17.516	262.558	3.872	52.512	421.346	78.436	9.50	4.75	383690
		5.0	14.410	18.356	273.836	3.862	54.767	440.517	81.724	10.00	5.00	382831
		5.5	15.709	20.011	295.827	3.845	59.165	477.947	88.071	11.00	5.50	381114
		5.75	16.348	20.826	306.563	3.837	61.313	496.205	91.132	11.50	5.75	380256
		6.0	16.982	21.633	317.143	3.829	63.429	514.156	94.119	12.00	6.00	379398
		8.0	21.385	27.240	366.430	3.670	73.290	644.510	114.230	20.00	12.00	365663
		10.0	25.565	32.570	412.260	3.560	82.450	749.840	130.100	25.00	15.00	357079
110	±0.90	4.0	12.990	16.548	307.056	4.308	55.828	486.469	83.628	8.00	4.00	426265
		5.0	15.980	20.356	370.683	4.267	67.397	593.596	100.741	10.00	5.00	422831

		6.0	18.866	24.033	430.236	4.231	78.225	694.854	116.472	12.00	6.00	419 398
		8.0	23.897	30.440	506.120	4.080	92.020	878.700	142.820	20.00	12.00	405 663
		10.0	28.705	36.570	575.980	3.970	104.72	1 032.26	164.330	25.00	15.00	397 079
120	±0.90	3.5	12.556	15.995	358.823	4.736	59.804	563.011	89.658	7.00	3.50	467 982
		3.75	13.404	17.075	381.298	4.725	63.550	600.008	95.257	7.50	3.75	467 123
		4.0	14.246	18.148	403.396	4.715	67.233	636.572	100.754	8.00	4.00	466 265

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
120	±0.90	4.5	15.911	20.26	446.497	4.694	74.416	708.403	111.450	9.00	4.50	46454

				9								8
		4.75	16.733	21.316	467.521	4.683	77.920	743.667	116.651	9.50	4.75	463690
		5.0	17.550	22.356	488.208	4.673	81.368	778.497	121.755	10.00	5.00	462831
		5.5	19.163	24.411	528.619	4.653	88.103	846.850	131.675	11.00	5.50	461114
		5.75	19.959	25.426	548.367	4.644	91.394	880.372	136.494	11.50	5.75	460256
		6.0	20.750	26.433	567.826	4.635	94.638	913.456	141.219	12.00	6.00	459398
		7.5	24.978	31.819	679.264	4.620	113.211	1104.351	166.685	18.75	11.25	447809
		7.75	25.697	32.735	698.355	4.619	116.393	1133.907	170.681	19.38	11.63	446736
		8.0	26.409	33.642	717.484	4.618	119.581	1162.951	174.584	20.00	12.00	445663
		10.0	31.845	40.570	777.990	4.380	129.660	1376.410	202.520	25.00	15.00	437079
130	±1.00	4.0	15.502	19.748	518.089	5.122	79.706	814.722	119.479	8.00	4.00	506265

		5.0	19.120	24.356	628.411	5.079	96.679	998.220	144.766	10.00	5.00	502831
		6.0	22.634	28.833	732.312	5.040	112.663	1173.562	168.363	12.00	6.00	499398
		6.2	23.065	29.383	746.518	5.041	114.849	1211.925	172.335	15.50	9.30	493389
		8.0	28.921	36.842	923.462	5.007	142.071	1502.067	209.540	20.00	12.00	485663
		10.0	34.985	44.570	1022.280	4.790	157.270	1788.290	244.700	25.00	15.00	477079
140	±1.10	3.5	14.754	18.795	579.318	5.552	82.760	903.567	124.104	7.00	3.50	547982
		3.75	15.759	20.075	616.297	5.541	88.042	963.735	132.014	7.50	3.75	547123
		4.0	16.758	21.348	652.736	5.530	93.248	1023.317	139.804	8.00	4.00	546265
		4.5	18.737	23.869	724.031	5.508	103.433	1140.718	155.025	9.00	4.50	544548
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length

												mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
120	±0.90	4.5	15.911	20.269	446.497	4.694	74.416	708.403	111.450	9.00	4.50	464548
		4.75	16.733	21.316	467.521	4.683	77.920	743.667	116.651	9.50	4.75	463690
		5.0	17.550	22.356	488.208	4.673	81.368	778.497	121.755	10.00	5.00	462831
		5.5	19.163	24.411	528.619	4.653	88.103	846.850	131.675	11.00	5.50	461114
		5.75	19.959	25.426	548.367	4.644	91.394	880.372	136.494	11.50	5.75	460256
		6.0	20.750	26.433	567.826	4.635	94.638	913.456	141.219	12.00	6.00	459398
		7.5	24.978	31.819	679.264	4.620	113.211	1104.351	166.685	18.75	11.25	447809
		7.75	25.697	32.735	698.355	4.619	116.393	1133.907	170.681	19.38	11.63	446736
		8.0	26.409	33.642	717.484	4.618	119.581	1162.951	174.584	20.00	12.00	445663
		10.0	31.845	40.57	777.990	4.380	129.66	1	202.520	25.00	15.00	43707

				0			0	376.410				9
130	±1.00	4.0	15.502	19.748	518.089	5.122	79.706	814.722	119.479	8.00	4.00	506265
		5.0	19.120	24.356	628.411	5.079	96.679	998.220	144.766	10.00	5.00	502831
		6.0	22.634	28.833	732.312	5.040	112.663	1173.562	168.363	12.00	6.00	499398
		6.2	23.065	29.383	746.518	5.041	114.849	1211.925	172.335	15.50	9.30	493389
		8.0	28.921	36.842	923.462	5.007	142.071	1502.067	209.540	20.00	12.00	485663
		10.0	34.985	44.570	1022.280	4.790	157.270	1788.290	244.700	25.00	15.00	477079
140	±1.10	3.5	14.754	18.795	579.318	5.552	82.760	903.567	124.104	7.00	3.50	547982
		3.75	15.759	20.075	616.297	5.541	88.042	963.735	132.014	7.50	3.75	547123
		4.0	16.758	21.348	652.736	5.530	93.248	1023.317	139.804	8.00	4.00	546265
		4.5	18.737	23.869	724.031	5.508	103.433	1140.718	155.025	9.00	4.50	544548

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
140	±1.10	4.75	19.716	25.116	758.911	5.497	108.416	1198.536	162.459	9.50	4.75	543690
		5.0	20.690	26.356	793.293	5.486	113.328	1255.765	169.777	10.00	5.00	542831
		5.5	22.617	28.811	860.614	5.465	122.945	1368.452	184.067	11.00	5.50	541114
		5.75	23.570	30.026	893.578	5.455	127.654	1423.908	191.042	11.50	5.75	540256
		6.0	24.518	31.233	926.095	5.445	132.299	1478.772	197.904	12.00	6.00	539398
		7.5	29.688	37.819	1106.258	5.408	158.037	1800.718	235.797	18.75	11.25	527809
		7.75	30.564	38.935	1136.885	5.404	162.412	1851.117	241.797	19.38	11.63	526736

		8.0	31.433	40.042	1167.381	5.399	166.769	1900.844	247.686	20.00	12.00	525663
150	±1.20	3.5	15.853	20.195	717.295	5.960	95.639	1116.029	143.426	7.00	3.50	587982
		3.75	16.937	21.575	763.432	5.948	101.791	1190.730	152.642	7.50	3.75	587123
		4.0	18.014	22.948	808.937	5.937	107.858	1264.758	161.728	8.00	4.00	586265
		4.5	20.150	25.669	898.093	5.915	119.746	1410.794	179.511	9.00	4.50	584548
		4.75	21.208	27.016	941.766	5.904	125.569	1482.801	188.212	9.50	4.75	583690
		5.0	22.260	28.356	984.852	5.893	131.314	1554.132	196.786	10.00	5.00	582831
		5.5	24.344	31.011	1069.312	5.872	142.575	1694.764	213.560	11.00	5.50	581114
		5.75	25.376	32.326	1110.711	5.862	148.095	1764.064	221.762	11.50	5.75	580256
		6.0	26.402	33.633	1151.574	5.851	153.543	1832.685	229.843	12.00	6.00	579398
		7.5	32.043	40.819	1376.431	5.807	183.524	2237.541	274.843	18.75	11.25	567809

		7.75	32.998	42.035	1414.549	5.801	188.606	2301.192	281.995	19.38	11.63	566736
		8.0	33.945	43.242	1452.441	5.796	193.659	2364.083	289.025	20.00	12.00	565663
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
140	±1.10	4.75	19.716	25.116	758.911	5.497	108.416	1198.536	162.459	9.50	4.75	543690
		5.0	20.690	26.356	793.293	5.486	113.328	1255.765	169.777	10.00	5.00	542831
		5.5	22.617	28.811	860.614	5.465	122.945	1368.452	184.067	11.00	5.50	541114
		5.75	23.570	30.026	893.578	5.455	127.654	1423.908	191.042	11.50	5.75	540256
		6.0	24.518	31.233	926.095	5.445	132.299	1478.772	197.904	12.00	6.00	539398
		7.5	29.688	37.819	1106.258	5.408	158.037	1800.718	235.797	18.75	11.25	527809

		7.75	30.564	38.935	1136.885	5.404	162.412	1851.117	241.797	19.38	11.63	526736
		8.0	31.433	40.042	1167.381	5.399	166.769	1900.844	247.686	20.00	12.00	525663
150	±1.20	3.5	15.853	20.195	717.295	5.960	95.639	1116.029	143.426	7.00	3.50	587982
		3.75	16.937	21.575	763.432	5.948	101.791	1190.730	152.642	7.50	3.75	587123
		4.0	18.014	22.948	808.937	5.937	107.858	1264.758	161.728	8.00	4.00	586265
		4.5	20.150	25.669	898.093	5.915	119.746	1410.794	179.511	9.00	4.50	584548
		4.75	21.208	27.016	941.766	5.904	125.569	1482.801	188.212	9.50	4.75	583690
		5.0	22.260	28.356	984.852	5.893	131.314	1554.132	196.786	10.00	5.00	582831
		5.5	24.344	31.011	1069.312	5.872	142.575	1694.764	213.560	11.00	5.50	581114
		5.75	25.376	32.326	1110.711	5.862	148.095	1764.064	221.762	11.50	5.75	580256
		6.0	26.402	33.633	1151.574	5.851	153.543	1832.685	229.843	12.00	6.00	579398

		7.5	32.043	40.819	1376.431	5.807	183.524	2237.541	274.843	18.75	11.25	567809
		7.75	32.998	42.035	1414.549	5.801	188.606	2301.192	281.995	19.38	11.63	566736
		8.0	33.945	43.242	1452.441	5.796	193.659	2364.083	289.025	20.00	12.00	565663

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
150	±1.20	10.0	41.265	52.570	1653.710	5.610	220.490	2839.240	340.980	25.00	15.00	557079
		12.0	47.147	60.060	1784.840	5.450	237.980	3230.570	380.010	36.00	24.00	538194
160	±1.20	3.5	16.952	21.595	875.623	6.368	109.453	1359.415	164.148	7.00	3.50	627982
		3.75	18.114	23.075	932.323	6.356	116.54	1	174.770	7.50	3.75	627

							0	450.812				123
		4.0	19.270	24.548	988.292	6.345	123.536	1541.446	185.251	8.00	4.00	626265
		4.5	21.563	27.469	1098.083	6.323	137.260	1720.417	205.797	9.00	4.50	624548
		4.75	22.699	28.916	1151.929	6.312	143.991	1808.752	215.863	9.50	4.75	623690
		5.0	23.830	30.356	1205.090	6.301	150.636	1896.321	225.794	10.00	5.00	622831
		5.5	26.071	33.211	1309.411	6.279	163.676	2069.151	245.252	11.00	5.50	621114
		5.75	27.181	34.626	1360.596	6.268	170.074	2154.412	254.781	11.50	5.75	620256
		7.5	34.398	43.819	1688.389	6.207	211.049	2739.456	316.884	18.75	11.25	607809
		7.75	35.431	45.135	1735.279	6.201	216.910	2818.446	325.286	19.38	11.63	606736
		8.0	36.457	46.442	1781.843	6.194	222.730	2896.583	333.558	20.00	12.00	605663
		10.0	44.405	56.570	2048.850	6.020	256.110	3490.290	395.100	25.00	15.00	597079

		12.0	50.915	64.860	2229.430	5.860	278.680	3996.720	443.130	36.00	24.00	578194
170	±1.30	4.0	20.526	26.148	1192.401	6.753	140.282	1855.779	210.374	8.00	4.00	666265
		5.0	25.400	32.356	1456.006	6.708	171.295	2285.331	256.801	10.00	5.00	662831
		6.0	30.170	38.433	1707.222	6.665	200.850	2701.023	300.913	12.00	6.00	659398
		8.0	38.969	49.642	2158.785	6.594	253.975	3503.142	381.285	20.00	12.00	645663
		10.0	47.545	60.570	2502.270	6.430	294.380	4233.070	453.210	25.00	15.00	637079
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
150	±1.20	10.0	41.265	52.570	1653.710	5.610	220.490	2839.240	340.980	25.00	15.00	557079
		12.0	47.147	60.060	1784.840	5.450	237.980	3230.570	380.010	36.00	24.00	538194

160	±1.20	3.5	16.952	21.595	875.623	6.368	109.453	1359.415	164.148	7.00	3.50	627982
		3.75	18.114	23.075	932.323	6.356	116.540	1450.812	174.770	7.50	3.75	627123
		4.0	19.270	24.548	988.292	6.345	123.536	1541.446	185.251	8.00	4.00	626265
		4.5	21.563	27.469	1098.083	6.323	137.260	1720.417	205.797	9.00	4.50	624548
		4.75	22.699	28.916	1151.929	6.312	143.991	1808.752	215.863	9.50	4.75	623690
		5.0	23.830	30.356	1205.090	6.301	150.636	1896.321	225.794	10.00	5.00	622831
		5.5	26.071	33.211	1309.411	6.279	163.676	2069.151	245.252	11.00	5.50	621114
		5.75	27.181	34.626	1360.596	6.268	170.074	2154.412	254.781	11.50	5.75	620256
		7.5	34.398	43.819	1688.389	6.207	211.049	2739.456	316.884	18.75	11.25	607809
		7.75	35.431	45.135	1735.279	6.201	216.910	2818.446	325.286	19.38	11.63	606736
		8.0	36.457	46.442	1781.843	6.194	222.730	2896.583	333.558	20.00	12.00	605663

		10.0	44.405	56.570	2048.850	6.020	256.110	3490.290	395.100	25.00	15.00	597079
		12.0	50.915	64.860	2229.430	5.860	278.680	3996.720	443.130	36.00	24.00	578194
170	±1.30	4.0	20.526	26.148	1192.401	6.753	140.282	1855.779	210.374	8.00	4.00	666265
		5.0	25.400	32.356	1456.006	6.708	171.295	2285.331	256.801	10.00	5.00	662831
		6.0	30.170	38.433	1707.222	6.665	200.850	2701.023	300.913	12.00	6.00	659398
		8.0	38.969	49.642	2158.785	6.594	253.975	3503.142	381.285	20.00	12.00	645663
		10.0	47.545	60.570	2502.270	6.430	294.380	4233.070	453.210	25.00	15.00	637079

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

5

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/

												m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
170	±1.30	12.0	54.683	69.660	2741.970	6.270	322.580	4872.550	511.030	36.00	24.00	618194
180	±1.40	3.5	19.150	24.395	1258.937	7.184	139.882	1947.353	209.791	7.00	3.50	707982
		3.75	20.469	26.075	1341.374	7.172	149.042	2079.239	223.524	7.50	3.75	707123
		4.0	21.782	27.748	1422.864	7.161	158.096	2210.159	237.097	8.00	4.00	706265
		4.5	24.389	31.069	1583.052	7.138	175.895	2469.098	263.766	9.00	4.50	704548
		4.75	25.682	32.716	1661.775	7.127	184.642	2597.116	276.864	9.50	4.75	703690
		5.0	26.970	34.356	1739.600	7.116	193.289	2724.164	289.807	10.00	5.00	702831
		5.5	29.525	37.611	1892.609	7.094	210.290	2975.35	315.231	11.00	5.50	701114
		5.75	30.792	39.226	1967.821	7.083	218.647	3099.485	327.714	11.50	5.75	700256
		6.0	32.054	40.83	2042.19	7.072	226.91	3222.64	340.046	12.00	6.00	69939

				3	0		0	8				8
		7.5	39.108	49.819	2449.657	7.012	272.184	3956.561	409.954	18.75	11.25	687809
		7.75	40.298	51.335	2518.339	7.004	279.815	4073.090	421.155	19.38	11.63	686736
		8.0	41.481	52.842	2586.469	6.996	287.385	4188.562	432.207	20.00	12.00	685663
		10.0	50.685	64.570	3017.980	6.840	335.330	5073.570	515.310	25.00	15.00	677079
		12.0	58.451	74.460	3327.260	6.680	369.700	5865.260	583.710	36.00	24.00	658194
190	±1.50	4.0	23.038	29.348	1681.281	7.569	176.977	2606.984	265.419	8.00	4.00	746265
		5.0	28.540	36.356	2057.872	7.524	216.618	3215.819	324.813	10.00	5.00	742831
		6.0	33.938	43.233	2418.455	7.479	254.574	3807.375	381.578	12.00	6.00	739398
		8.0	43.993	56.042	3068.095	7.399	322.957	4957.642	486.325	20.00	12.00	725663
		10.0	53.825	68.570	3599.970	7.250	378.940	6017.790	581.400	25.00	15.00	717079

Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
170	±1.30	12.0	54.683	69.660	2741.970	6.270	322.580	4872.550	511.030	36.00	24.00	618194
180	±1.40	3.5	19.150	24.395	1258.937	7.184	139.882	1947.353	209.791	7.00	3.50	707982
		3.75	20.469	26.075	1341.374	7.172	149.042	2079.239	223.524	7.50	3.75	707123
		4.0	21.782	27.748	1422.864	7.161	158.096	2210.159	237.097	8.00	4.00	706265
		4.5	24.389	31.069	1583.052	7.138	175.895	2469.098	263.766	9.00	4.50	704548
		4.75	25.682	32.716	1661.775	7.127	184.642	2597.116	276.864	9.50	4.75	703690
		5.0	26.970	34.356	1739.600	7.116	193.289	2724.164	289.807	10.00	5.00	702831
		5.5	29.525	37.611	1892.609	7.094	210.290	2975.35	315.231	11.00	5.50	701114

		5.75	30.792	39.226	1967.821	7.083	218.647	3099.485	327.714	11.50	5.75	700256
		6.0	32.054	40.833	2042.190	7.072	226.910	3222.648	340.046	12.00	6.00	699398
		7.5	39.108	49.819	2449.657	7.012	272.184	3956.561	409.954	18.75	11.25	687809
		7.75	40.298	51.335	2518.339	7.004	279.815	4073.090	421.155	19.38	11.63	686736
		8.0	41.481	52.842	2586.469	6.996	287.385	4188.562	432.207	20.00	12.00	685663
		10.0	50.685	64.570	3017.980	6.840	335.330	5073.570	515.310	25.00	15.00	677079
		12.0	58.451	74.460	3327.260	6.680	369.700	5865.260	583.710	36.00	24.00	658194
190	±1.50	4.0	23.038	29.348	1681.281	7.569	176.977	2606.984	265.419	8.00	4.00	746265
		5.0	28.540	36.356	2057.872	7.524	216.618	3215.819	324.813	10.00	5.00	742831
		6.0	33.938	43.233	2418.455	7.479	254.574	3807.375	381.578	12.00	6.00	739398
		8.0	43.993	56.042	3068.095	7.399	322.957	4957.642	486.325	20.00	12.00	725663

		10.0	53.825	68.570	3599.970	7.250	378.940	6 017.790	581.400	25.00	15.00	71707 9

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性 (续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
190	±1.50	12.0	62.219	79.260	3990.100	7.100	420.010	6 982.040	661.170	36.00	24.00	698 194
200	±1.60	3.5	21.348	27.195	1740.460	8.000	174.046	2 684.182	261.034	7.00	3.50	78798 2
		3.75	22.824	29.075	1855.450	7.988	185.545	2 867.014	278.278	7.50	3.75	787 123
		4.0	24.294	30.948	1969.252	7.977	196.925	3 048.656	295.341	8.00	4.00	786 265
		4.5	27.215	34.669	2193.338	7.954	219.334	3408.363	328.933	9.00	4.50	784 548
		4.75	28.665	36.51	2303.64	7.943	230.36	3586.42	345.463	9.50	4.75	78369

				6	9		5	6				0
		5.0	30.110	38.356	2412.822	7.931	241.282	3763.295	361.818	10.00	5.00	782831
		5.5	32.979	42.011	2627.810	7.909	262.781	4113.446	394.007	11.00	5.50	781114
		5.75	34.403	43.826	2733.653	7.898	273.365	4286.726	409.843	11.50	5.75	780256
		6.0	35.822	45.633	2838.417	7.887	283.842	4458.807	425.508	12.00	6.00	779398
		7.5	43.818	55.819	3414.062	7.821	341.406	5488.032	515.011	18.75	11.25	767809
		7.75	45.165	57.535	3510.865	7.812	351.086	5652.247	529.410	19.38	11.63	766736
		8.0	46.505	59.242	3606.861	7.803	360.686	5815.182	543.640	20.00	12.00	765663
		9.5	54.394	69.291	4167.935	7.756	416.794	6765.513	625.509	23.75	14.25	759225
		9.75	55.683	70.933	4259.319	7.749	425.932	6919.292	638.576	24.38	14.63	758152
		10.0	56.965	72.566	4350.202	7.743	435.020	7071.735	651.480	25.00	15.00	757079

		12.0	65.987	84.060	4 735.290	7.510	473.530	8230.100	743.420	36.00	24.00	738 194
220	±1.80	5.0	33.250	42.356	3240.756	8.747	294.614	5 037.714	441.827	10.00	5.00	86283 1
		6.0	39.590	50.433	3819.029	8.702	347.184	5 976.181	520.567	12.00	6.00	85939 8
		8.0	51.529	65.642	4 868.618	8.612	442.602	7 814.839	667.861	20.00	12.00	845 663
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
190	±1.50	12.0	62.219	79.260	3990.100	7.100	420.010	6 982.040	661.170	36.00	24.00	698 194
200	±1.60	3.5	21.348	27.195	1740.460	8.000	174.046	2 684.182	261.034	7.00	3.50	78798 2
		3.75	22.824	29.075	1855.450	7.988	185.545	2 867.014	278.278	7.50	3.75	787 123
		4.0	24.294	30.948	1969.252	7.977	196.925	3 048.656	295.341	8.00	4.00	786 265

		4.5	27.215	34.669	2193.338	7.954	219.334	3408.363	328.933	9.00	4.50	784548
		4.75	28.665	36.516	2303.649	7.943	230.365	3586.426	345.463	9.50	4.75	783690
		5.0	30.110	38.356	2412.822	7.931	241.282	3763.295	361.818	10.00	5.00	782831
		5.5	32.979	42.011	2627.810	7.909	262.781	4113.446	394.007	11.00	5.50	781114
		5.75	34.403	43.826	2733.653	7.898	273.365	4286.726	409.843	11.50	5.75	780256
		6.0	35.822	45.633	2838.417	7.887	283.842	4458.807	425.508	12.00	6.00	779398
		7.5	43.818	55.819	3414.062	7.821	341.406	5488.032	515.011	18.75	11.25	767809
		7.75	45.165	57.535	3510.865	7.812	351.086	5652.247	529.410	19.38	11.63	766736
		8.0	46.505	59.242	3606.861	7.803	360.686	5815.182	543.640	20.00	12.00	765663
		9.5	54.394	69.291	4167.935	7.756	416.794	6765.513	625.509	23.75	14.25	759225
		9.75	55.683	70.933	4259.319	7.749	425.932	6919.292	638.576	24.38	14.63	758152

		10.0	56.965	72.566	4350.202	7.743	435.020	7 071.735	651.480	25.00	15.00	757079
		12.0	65.987	84.060	4 735.290	7.510	473.530	8230.100	743.420	36.00	24.00	738 194
220	±1.80	5.0	33.250	42.356	3240.756	8.747	294.614	5 037.714	441.827	10.00	5.00	862831
		6.0	39.590	50.433	3819.029	8.702	347.184	5 976.181	520.567	12.00	6.00	859398
		8.0	51.529	65.642	4 868.618	8.612	442.602	7 814.839	667.861	20.00	12.00	845 663

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
220	±1.80	10.0	63.245	80.566	5881.597	8.544	534.691	9 532.773	803.622	25.00	15.00	837 079
		12.0	73.523	93.659	6879.86	8.571	625.44	11	922.279	36.00	24.00	81819

					3		2	148.806				4
240	±1.90	5.0	36.390	46.356	4 239.403	9.563	353.28 4	6 571.421	529.835	10.00	5.00	94283 1
		6.0	43.358	55.233	5 003.227	9.518	416.93 6	7803.569	625.222	12.00	6.00	93939 8
		8.0	56.553	72.042	6397.34 0	9.423	533.11 2	10 225.933	804.873	20.00	12.00	925 663
		10.0	69.525	88.566	7 742.125	9.350	645.17 7	12 504.687	971.743	25.00	15.00	917 079
		12.0	81.059	103.25 9	9 023.491	9.348	751.95 8	14678.96 3	1120.29 4	36.00	24.00	898 194
250	±2.00	4.5	34.280	43.669	4 361.815	9.994	348.94 5	6 732.075	523.346	9.00	4.50	984 548
		4.75	36.123	46.016	4 585.706	9.983	366.85 6	7 088.471	550.205	9.50	4.75	983 690
		5.0	37.960	48.356	4 807.743	9.971	384.61 9	7443.007	576.838	10.00	5.00	982 831
		5.5	41.614	53.011	5 246.320	9.948	419.70 6	8 146.491	629.436	11.00	5.50	981 114
		5.75	43.431	55.326	5462.89 0	9.937	437.03 1	8495.438	655.402	11.50	5.75	980 256

		6.0	45.242	57.633	5 677.671	9.925	454.214	8 842.518	681.149	12.00	6.00	979398
		7.5	55.593	70.819	6 871.300	9.850	549.704	10 928.305	830.117	18.75	11.25	967 809
		7.75	57.333	73.035	7 071.339	9.840	565.707	11 264.004	854.255	19.38	11.63	966 736
		8.0	59.065	75.242	7 269.813	9.829	581.585	11 597.769	878.176	20.00	12.00	965 663
		9.5	69.309	88.291	8429.888	9.771	674.391	13 559.256	1017.170	23.75	14.25	959225
		9.75	70.990	90.433	8618.475	9.762	689.478	13 879.240	1 039.589	24.38	14.63	958152
		10.0	72.665	92.566	8805.814	9.753	704.465	14197.22	1 061.797	25.00	15.00	957079
		11.5	81.667	104.034	9880.719	9.746	790.458	16 090.585	1185.854	34.50	23.00	940 769
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s

220	±1.80	10.0	63.245	80.566	5881.597	8.544	534.691	9532.773	803.622	25.00	15.00	837079
		12.0	73.523	93.659	6879.863	8.571	625.442	11148.806	922.279	36.00	24.00	818194
240	±1.90	5.0	36.390	46.356	4239.403	9.563	353.284	6571.421	529.835	10.00	5.00	942831
		6.0	43.358	55.233	5003.227	9.518	416.936	7803.569	625.222	12.00	6.00	939398
		8.0	56.553	72.042	6397.340	9.423	533.112	10225.933	804.873	20.00	12.00	925663
		10.0	69.525	88.566	7742.125	9.350	645.177	12504.687	971.743	25.00	15.00	917079
		12.0	81.059	103.259	9023.491	9.348	751.958	14678.963	1120.294	36.00	24.00	898194
250	±2.00	4.5	34.280	43.669	4361.815	9.994	348.945	6732.075	523.346	9.00	4.50	984548
		4.75	36.123	46.016	4585.706	9.983	366.856	7088.471	550.205	9.50	4.75	983690
		5.0	37.960	48.356	4807.743	9.971	384.619	7443.007	576.838	10.00	5.00	982831
		5.5	41.614	53.011	5246.320	9.948	419.706	8146.491	629.436	11.00	5.50	981114

		5.75	43.431	55.326	5462.890	9.937	437.031	8495.438	655.402	11.50	5.75	980256
		6.0	45.242	57.633	5677.671	9.925	454.214	8842.518	681.149	12.00	6.00	979398
		7.5	55.593	70.819	6871.300	9.850	549.704	10928.305	830.117	18.75	11.25	967809
		7.75	57.333	73.035	7071.339	9.840	565.707	11264.004	854.255	19.38	11.63	966736
		8.0	59.065	75.242	7269.813	9.829	581.585	11597.769	878.176	20.00	12.00	965663
		9.5	69.309	88.291	8429.888	9.771	674.391	13559.256	1017.170	23.75	14.25	959225
		9.75	70.990	90.433	8618.475	9.762	689.478	13879.240	1039.589	24.38	14.63	958152
		10.0	72.665	92.566	8805.814	9.753	704.465	14197.22	1061.797	25.00	15.00	957079
		11.5	81.667	104.034	9880.719	9.746	790.458	16090.585	1185.854	34.50	23.00	940769

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

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边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
250	±2.00	11.75	83.251	106.052	10066.633	9.743	805.331	16392.127	1206.281	35.25	23.50	939482
		12.0	84.827	108.059	10252.429	9.741	820.194	16691.331	1226.488	36.00	24.00	938194
260	±2.10	5.0	39.530	50.356	5424.762	10.379	417.289	8388.415	625.841	10.00	5.00	1022831
		6.0	47.126	60.033	6410.211	10.333	493.093	9969.771	739.475	12.00	6.00	1019398
		8.0	61.577	78.442	8218.626	10.236	632.202	13086.864	954.677	20.00	12.00	1005663
		10.0	75.805	96.566	9963.786	10.158	766.445	16035.472	1155.847	25.00	15.00	997079
		12.0	88.595	112.859	11592.517	10.135	891.732	18878.157	1337.475	36.00	24.00	978194
280	±2.20	4.5	38.519	49.069	6175.653	11.219	441.118	9503.251	661.592	9.00	4.50	1104548
		4.75	40.597	51.716	6	11.20	463.959	10	695.847	9.50	4.75	110369

					495.424	7		009.139				0
		5.0	42.670	54.356	6812.833	11.195	486.631	10 512.697	729.847	10.00	5.00	1102831
		5.5	46.795	59.611	7440.632	11.172	531.474	11 512.813	797.089	11.00	5.50	1101114
		5.75	48.847	62.226	7 751.054	11.161	553.647	12 009.369	830.332	11.50	5.75	1100256
		6.0	50.894	64.833	8 059.181	11.149	575.656	12 503.588	863.327	12.00	6.00	1099398
		7.5	62.658	79.819	9 783.055	11.071	698.790	15 477.561	1 055.164	18.75	11.25	1087809
		7.75	64.633	82.335	10 071.620	11.060	719.401	15 957.992	1 086.343	19.38	11.63	1086736
		8.0	66.601	84.842	10358.078	11.049	739.863	16 436.032	1117.275	20.00	12.00	1085663
		9.5	78.258	99.691	12034.746	10.987	859.625	19 253.527	1297.726	23.75	14.25	1079225
		9.75	80.175	102.133	12 307.554	10.977	879.111	19714.562	1326.952	24.38	14.63	1078152
		10.0	82.085	104.566	12578.579	10.968	898.470	20173.130	1355.938	25.00	15.00	1077079

		11.5	92.500	117.834	14098.357	10.938	1007.025	22 927.523	1520.069	34.50	23.00	1 060 769
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
250	±2.00	11.75	83.251	106.052	10066.633	9.743	805.331	16392.127	1 206.281	35.25	23.50	939 482
		12.0	84.827	108.059	10252.429	9.741	820.194	16 691.331	1 226.488	36.00	24.00	938 194
260	±2.10	5.0	39.530	50.356	5424.762	10.379	417.289	8388.415	625.841	10.00	5.00	102283 1
		6.0	47.126	60.033	6 410.211	10.333	493.093	9 969.771	739.475	12.00	6.00	101939 8
		8.0	61.577	78.442	8218.626	10.236	632.202	13 086.864	954.677	20.00	12.00	100566 3
		10.0	75.805	96.566	9 963.786	10.158	766.445	16 035.472	1 155.847	25.00	15.00	997079
		12.0	88.595	112.859	11 592.517	10.135	891.732	18 878.157	1 337.475	36.00	24.00	978 194
280	±2.20	4.5	38.519	49.069	6	11.21	441.118	9	661.592	9.00	4.50	110454

					175.653	9		503.251				8
		4.75	40.597	51.716	6 495.424	11.20 7	463.959	10 009.139	695.847	9.50	4.75	110369 0
		5.0	42.670	54.356	6812.83 3	11.19 5	486.631	10 512.697	729.847	10.00	5.00	110283 1
		5.5	46.795	59.611	7440.63 2	11.17 2	531.474	11 512.813	797.089	11.00	5.50	110111 4
		5.75	48.847	62.226	7 751.054	11.16 1	553.647	12 009.369	830.332	11.50	5.75	110025 6
		6.0	50.894	64.833	8 059.181	11.14 9	575.656	12 503.588	863.327	12.00	6.00	109939 8
		7.5	62.658	79.819	9 783.055	11.07 1	698.790	15 477.561	1 055.164	18.75	11.25	108780 9
		7.75	64.633	82.335	10 071.620	11.06 0	719.401	15 957.992	1 086.343	19.38	11.63	108673 6
		8.0	66.601	84.842	10358.0 78	11.04 9	739.863	16 436.032	1117.27 5	20.00	12.00	108566 3
		9.5	78.258	99.691	12034.7 46	10.98 7	859.625	19 253.527	1297.72 6	23.75	14.25	107922 5
		9.75	80.175	102.13 3	12 307.554	10.97 7	879.111	19714.5 62	1326.95 2	24.38	14.63	107815 2

		10.0	82.085	104.566	12578.579	10.968	898.470	20173.130	1355.938	25.00	15.00	1077079
		11.5	92.500	117.834	14098.357	10.938	1007.025	22 927.523	1520.069	34.50	23.00	1 060 769

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
280	±2.20	11.75	94.319	120.152	14362.195	10.933	1025.871	23367.161	1547.073	35.25	23.50	1059482
		12.0	96.131	122.459	14625.343	10.928	1044.667	23 803.979	1 573.828	36.00	24.00	1058194
300	±2.40	5.5	50.249	64.011	9 199.842	11.988	613.323	14 206.400	919.856	11.00	5.50	1181114
		5.75	52.458	66.826	9 585.922	11.977	639.061	14 821.449	958.451	11.50	5.75	1180256
		6.0	54.662	69.633	9 969.337	11.965	664.622	15 433.819	996.777	12.00	6.00	1179398

		7.5	67.368	85.819	12 123.146	11.88 5	808.210	19 120.852	1 220.190	18.75	11.25	116780 9
		7.75	69.500	88.535	12 483.472	11.87 4	832.231	19 717.705	1 256.563	19.38	11.63	116673 6
		8.0	71.625	91.242	12 841.295	11.86 3	856.086	20 311.836	1 292.669	20.00	12.00	116566 3
		9.5	84.224	107.29 1	14 937.854	11.79 9	995.857	23 818.883	1503.75 1	23.75	14.25	115922 5
		9.75	86.298	109.93 3	15 279.267	11.78 9	1018.61 8	24 393.672	1538.01 4	24.38	14.63	1158 152
		10.0	88.365	112.56 6	15 618.505	11.77 9	1 041.234	24 965.657	1572.01 7	25.00	15.00	115707 9
		11.5	99.722	127.03 4	17 505.808	11.73 9	1167.05 4	28 414.519	1765.85 5	34.50	23.00	114076 9
		11.7 5	101.698	129.55 2	17 833.643	11.73 3	1188.91 0	28 965.855	1797.74 1	35.25	23.50	113948 2
		12.0	103.667	132.05 9	18 160.367	11.72 7	1210.69 1	29 514.024	1829.35 9	36.00	24.00	1138 194
320	±2.50	6.0	58.430	74.433	12 159.878	12.78 2	759.992	18 789.264	1139.82 5	12.00	6.00	125939 8
		8.0	76.649	97.642	15 693.876	12.67 8	980.867	24 752.675	1480.85 9	20.00	12.00	124566 3

		10.0	94.645	120.566	19 115.564	12.592	1194.723	30461.055	1804.087	25.00	15.00	1237079
		12.0	111.203	141.659	22 235.99	12.529	1389.749	36 065.887	2104.071	36.00	24.00	1218194
350	±2.80	5.5	58.884	75.011	14 763.377	14.029	843.622	22 705.671	1265.27	11.00	5.50	1381 114
		5.75	61.486	78.326	15390.248	14.017	879.443	23696.010	1318.993	11.50	5.75	1380 256
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
280	±2.20	11.75	94.319	120.152	14362.195	10.933	1025.871	23367.161	1547.073	35.25	23.50	1059482
		12.0	96.131	122.459	14625.343	10.928	1044.667	23 803.979	1 573.828	36.00	24.00	1058194
300	±2.40	5.5	50.249	64.011	9 199.842	11.988	613.323	14 206.400	919.856	11.00	5.50	1181114
		5.75	52.458	66.826	9 585.922	11.977	639.061	14 821.449	958.451	11.50	5.75	1180256
		6.0	54.662	69.633	9	11.96	664.622	15	996.777	12.00	6.00	117939

					969.337	5		433.819				8
		7.5	67.368	85.819	12 123.146	11.88 5	808.210	19 120.852	1 220.190	18.75	11.25	116780 9
		7.75	69.500	88.535	12 483.472	11.87 4	832.231	19 717.705	1 256.563	19.38	11.63	116673 6
		8.0	71.625	91.242	12 841.295	11.86 3	856.086	20 311.836	1 292.669	20.00	12.00	116566 3
		9.5	84.224	107.29 1	14 937.854	11.79 9	995.857	23 818.883	1503.75 1	23.75	14.25	115922 5
		9.75	86.298	109.93 3	15 279.267	11.78 9	1018.61 8	24 393.672	1538.01 4	24.38	14.63	1158 152
		10.0	88.365	112.56 6	15 618.505	11.77 9	1 041.234	24 965.657	1572.01 7	25.00	15.00	115707 9
		11.5	99.722	127.03 4	17 505.808	11.73 9	1167.05 4	28 414.519	1765.85 5	34.50	23.00	114076 9
		11.7 5	101.698	129.55 2	17 833.643	11.73 3	1188.91 0	28 965.855	1797.74 1	35.25	23.50	113948 2
		12.0	103.667	132.05 9	18 160.367	11.72 7	1210.69 1	29 514.024	1829.35 9	36.00	24.00	1138 194
320	±2.50	6.0	58.430	74.433	12 159.878	12.78 2	759.992	18 789.264	1139.82 5	12.00	6.00	125939 8

		8.0	76.649	97.642	15 693.876	12.67 8	980.867	24 752.675	1480.85 9	20.00	12.00	124566 3
		10.0	94.645	120.56 6	19 115.564	12.59 2	1194.72 3	30461.0 55	1804.08 7	25.00	15.00	123707 9
		12.0	111.203	141.65 9	22 235.99	12.52 9	1389.74 9	36 065.887	2104.07 1	36.00	24.00	121819 4
350	±2.80	5.5	58.884	75.011	14 763.377	14.02 9	843.622	22 705.671	1265.27	11.00	5.50	1381 114
		5.75	61.486	78.326	15390.2 48	14.01 7	879.443	23696.0 10	1318.99 3	11.50	5.75	1380 256

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	±Δ	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
350	±2.80	6.0	64.082	81.633	16 013.414	14.00 6	915.052	24682.7 09	1 372.397	12.00	6.00	137939 8
		7.5	79.143	100.81 9	19 544.599	13.92 3	1 116.834	30 628.171	1 685.243	18.75	11.25	1367 809

		7.75	81.668	104.035	20134.763	13.912	1150.558	31594.596	1736.348	19.38	11.63	1366736
		8.0	84.185	107.242	20721.308	13.900	1184.075	32557.376	1787.137	20.00	12.00	1365663
		9.5	99.139	126.291	24166.835	13.833	1380.962	38256.883	2085.284	23.75	14.25	1359225
		9.75	101.605	129.433	24729.196	13.822	1413.097	39193.827	2133.886	24.38	14.63	1358152
		10.0	104.065	132.566	25288.277	13.812	1445.044	40127.031	2182.179	25.00	15.00	1357079
		11.5	117.777	150.034	28377.695	13.753	1621.583	45786.119	2460.752	34.50	23.00	1340769
		11.75	120.146	153.052	28913.519	13.745	1652.201	46694.158	2506.589	35.25	23.50	1339482
		12.0	122.507	156.059	29447.048	13.736	1682.688	47598.083	2552.109	36.00	24.00	1338194
400	±3.20	7.5	90.918	115.819	29510.659	15.962	1475.533	46012.760	2225.284	18.75	11.25	1567809
		7.75	93.835	119.535	30412.713	15.951	1520.636	47475.924	2293.619	19.38	11.63	1566736
		8.0	96.745	123.242	31309.852	15.939	1565.493	48934.389	2361.589	20.00	12.00	1565663

		9.5	114.054	145.291	36591.831	15.870	1829.592	57585.752	2761.785	23.75	14.25	1559225
		9.75	116.913	148.933	37455.761	15.859	1872.788	59010.948	2827.223	24.38	14.63	1558152
		10.0	119.765	152.566	38315.128	15.847	1915.756	60431.336	2892.302	25.00	15.00	1557079
		11.5	135.832	173.034	43071.379	15.777	2153.569	69067.850	3270.582	34.50	23.00	1540769
		11.75	138.593	176.552	43893.762	15.768	2194.688	70458.248	3332.863	35.25	23.50	1539482
		12.0	141.347	180.059	44712.473	15.758	2235.624	71843.465	3394.779	36.00	24.00	1538194
		13.5	157.697	200.888	49553.092	15.706	2477.655	80044.346	3758.645	40.50	27.00	1530468
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
350	±2.80	6.0	64.082	81.633	16013.414	14.006	915.052	24682.709	1372.397	12.00	6.00	1379398
		7.5	79.143	100.81	19	13.92	1	30	1	18.75	11.25	1367

				9	544.599	3	116.834	628.171	685.243			809
		7.75	81.668	104.035	20134.763	13.912	1150.558	31594.596	1736.348	19.38	11.63	1366736
		8.0	84.185	107.242	20721.308	13.900	1184.075	32557.376	1787.137	20.00	12.00	1365663
		9.5	99.139	126.291	24166.835	13.833	1380.962	38256.883	2085.284	23.75	14.25	1359225
		9.75	101.605	129.433	24729.196	13.822	1413.097	39193.827	2133.886	24.38	14.63	1358152
		10.0	104.065	132.566	25288.277	13.812	1445.044	40127.031	2182.179	25.00	15.00	1357079
		11.5	117.777	150.034	28377.695	13.753	1621.583	45786.119	2460.752	34.50	23.00	1340769
		11.75	120.146	153.052	28913.519	13.745	1652.201	46694.158	2506.589	35.25	23.50	1339482
		12.0	122.507	156.059	29447.048	13.736	1682.688	47598.083	2552.109	36.00	24.00	1338194
400	±3.20	7.5	90.918	115.819	29510.659	15.962	1475.533	46012.760	2225.284	18.75	11.25	1567809
		7.75	93.835	119.535	30412.713	15.951	1520.636	47475.924	2293.619	19.38	11.63	1566736

		8.0	96.745	123.242	31309.852	15.939	1565.493	48934.389	2361.589	20.00	12.00	1566663
		9.5	114.054	145.291	36591.831	15.870	1829.592	57585.752	2761.785	23.75	14.25	1559225
		9.75	116.913	148.933	37455.761	15.859	1872.788	59010.948	2827.223	24.38	14.63	1558152
		10.0	119.765	152.566	38315.128	15.847	1915.756	60431.336	2892.302	25.00	15.00	1557079
		11.5	135.832	173.034	43071.379	15.777	2153.569	69067.850	3270.582	34.50	23.00	1540769
		11.75	138.593	176.552	43893.762	15.768	2194.688	70458.248	3332.863	35.25	23.50	1539482
		12.0	141.347	180.059	44712.473	15.758	2235.624	71843.465	3394.779	36.00	24.00	1538194
		13.5	157.697	200.888	49553.092	15.706	2477.655	80044.346	3758.645	40.50	27.00	1530468

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

二

II

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
400	±3.20	13.75	160.393	204.323	50348.869	15.698	2517.443	81392.490	3818.022	41.25	27.50	1529181
		14.0	163.082	207.748	51141.787	15.690	2557.089	82735.223	3877.039	42.00	28.00	1527893
450	±3.60	7.5	102.693	130.819	42396.326	18.002	1884.281	65837.119	2840.315	18.75	11.25	1767809
		7.75	106.003	135.035	43704.821	17.990	1942.436	67942.940	2928.381	19.38	11.63	1766736
		8.0	109.305	139.242	45006.927	17.979	2000.308	70042.874	3016.030	20.00	12.00	1765663
		9.5	128.969	164.291	52687.841	17.908	2341.682	82517.987	3533.265	23.75	14.25	1759225
		9.75	132.220	168.433	53946.462	17.896	2397.621	84576.282	3618.036	24.38	14.63	1758152
		10.0	135.465	172.566	55199.058	17.885	2453.291	86628.568	3702.400	25.00	15.00	1757079
		11.5	153.887	196.03	62	17.80	2762.74	99	4	34.50	23.00	174076

				4	161.860	7	9	122.192	195.364			9
		11.75	157.041	200.052	63361.871	17.797	2816.083	101139.354	4276.586	35.25	23.50	1739482
		12.0	160.187	204.059	64556.641	17.787	2869.184	103150.146	4357.394	36.00	24.00	1738194
		13.5	178.892	227.888	71620.736	17.728	3183.144	115079.34	4833.582	40.50	27.00	1730468
		13.75	181.981	231.823	72781.626	17.719	3234.739	117044.645	4911.509	41.25	27.50	1729181
		14.0	185.062	235.748	73938.097	17.710	3286.138	119003.324	4989.026	42.00	28.00	1727893
500	±4.00	7.5	114.468	145.819	58576	20.043	2343.064	90663.746	3530.341	18.75	11.25	1967809
		7.75	118.170	150.535	60398	20.031	2415.943	93576.892	3640.635	19.38	11.63	1966736
		8.0	121.865	155.242	62212	20.019	2488.501	96482.828	3750.463	20.00	12.00	1965663
		9.5	143.884	183.291	72 929	19.947	2917.195	113766.086	4399.730	23.75	14.25	1959225
		9.75	147.528	187.933	74688	19.935	2987.552	116621.078	4506.333	24.38	14.63	1958152

		10.0	151.165	192.566	76440	19.924	3 057.603	119 468.724	4 612.479	25.00	15.00	1 957 079
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
400	±3.20	13.75	160.393	204.323	50348.869	15.698	2517.443	81392.490	3818.022	41.25	27.50	152918 1
		14.0	163.082	207.748	51 141.787	15.690	2557.089	82735.223	3877.039	42.00	28.00	152789 3
450	±3.60	7.5	102.693	130.819	42396.326	18.002	1 884.281	65 837.119	2840.315	18.75	11.25	176780 9
		7.75	106.003	135.035	43704.821	17.990	1942.436	67 942.940	2928.381	19.38	11.63	176673 6
		8.0	109.305	139.242	45006.927	17.979	2000.308	70 042.874	3 016.030	20.00	12.00	176566 3
		9.5	128.969	164.291	52 687.841	17.908	2341.682	82 517.987	3533.265	23.75	14.25	175922 5
		9.75	132.220	168.433	53 946.462	17.896	2397.621	84576.282	3618.036	24.38	14.63	1758 152
		10.0	135.465	172.56	55	17.88	2453.29	86628.5	3702.40	25.00	15.00	175707

				6	199.058	5	1	68	0			9
		11.5	153.887	196.034	62 161.860	17.807	2762.749	99 122.192	4 195.364	34.50	23.00	1740769
		11.75	157.041	200.052	63 361.871	17.797	2816.083	101 139.354	4 276.586	35.25	23.50	1739482
		12.0	160.187	204.059	64 556.641	17.787	2869.184	103 150.146	4357.394	36.00	24.00	1738194
		13.5	178.892	227.888	71 620.736	17.728	3 183.144	115 079.34	4 833.582	40.50	27.00	1730468
		13.75	181.981	231.823	72 781.626	17.719	3 234.739	117 044.645	4 911.509	41.25	27.50	1729181
		14.0	185.062	235.748	73 938.097	17.710	3286.138	119 003.324	4 989.026	42.00	28.00	1727893
500	±4.00	7.5	114.468	145.819	58576	20.043	2 343.064	90663.746	3 530.341	18.75	11.25	1967809
		7.75	118.170	150.535	60398	20.031	2 415.943	93576.892	3 640.635	19.38	11.63	1966736
		8.0	121.865	155.242	62212	20.019	2 488.501	96 482.828	3 750.463	20.00	12.00	1965663
		9.5	143.884	183.291	72 929	19.947	2917.195	113 766.086	4399.730	23.75	14.25	1959225

		9.75	147.528	187.933	74688	19.935	2987.552	116 621.078	4 506.333	24.38	14.63	1958 152
		10.0	151.165	192.566	76440	19.924	3 057.603	119 468.724	4 612.479	25.00	15.00	1 957 079

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性 (续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (cont.)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
500	±4.00	11.5	171.942	219.034	86224	19.841	3448.966	136 811.635	5 235.113	34.50	23.00	1940 769
		11.75	175.488	223.552	87 905	19.830	3 516.214	139 618.713	5337.772	35.25	23.50	193948 2
		12.0	179.027	228.059	89579	19.819	3 583.182	142 418.113	5439.969	36.00	24.00	1938 194
		13.5	200.087	254.888	99483	19.756	3 979.334	159 051.290	6 043.457	40.50	27.00	193046 8
		13.75	203.568	259.323	101 111	19.746	4 044.455	161 795.948	6 142.429	41.25	27.50	192918 1
		14.0	207.042	263.74	102	19.73	4	164	6	42.00	28.00	1927

				8	733	6	109.330	532.644	240.943			893
		15.5	227.712	290.078	112341	19.679	4493.653	180783.600	6822.436	46.50	31.00	1920167
		15.75	231.128	294.431	113923	19.670	4556.931	183463.556	6917.758	47.25	31.50	1918880
		16.0	234.536	298.772	115499	19.662	4619.999	186135.263	7012.627	48.00	32.00	1917592
		18.0	261.510	333.134	127941	19.690	5117.654	207207.648	7755.309	54.00	36.00	1907291
		20.0	287.963	366.832	140126	19.610	5605.051	227731.612	8469.255	60.00	40.00	1896990
		25.0	351.817	448.175	169984	19.420	6799.385	247688.871	9154.712	75.00	50.00	1871238
600	±5.00	16.0	284.776	362.772	204030	23.850	6801.028	326005.339	10328.637	48.00	32.00	2317592
		18.0	318.030	405.134	226356	23.770	7545.229	363707.468	11457.379	54.00	36.00	2307291
		20.0	350.763	446.832	248168	23.690	8272.282	400659.286	12551.150	60.00	40.00	2296990
		24.0	414.667	528.238	290565	23.540	9685.529	472224.270	14634.873	72.00	48.00	2276388

		25.0	430.317	548.175	300 973	23.500	10 032.458	475 273.437	14 553.673	75.00	50.00	227123 8
700	±6.00	16.0	335.016	426.772	329 388	27.930	9411.095	512021.606	13 958.994	48.00	32.00	271759 2
		18.0	374.55	477.134	365 981	27.850	10456.602	570 986.222	15 476.512	54.00	36.00	270729 1
		20.0	413.563	526.832	40175 2	27.770	11478.635	644 046.035	17 432.549	60.00	40.00	2 696 990
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
B	$\pm\Delta$	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
500	±4.00	11.5	171.942	219.034	86224	19.841	3448.966	136 811.635	5 235.113	34.50	23.00	1940 769
		11.75	175.488	223.552	87 905	19.830	3 516.214	139 618.713	5337.772	35.25	23.50	193948 2
		12.0	179.027	228.059	89579	19.819	3 583.182	142 418.113	5439.969	36.00	24.00	1938 194
		13.5	200.087	254.888	99483	19.756	3 979.334	159 051.290	6 043.457	40.50	27.00	193046 8
		13.7	203.568	259.32	101	19.74	4	161	6	41.25	27.50	192918

		5		3	111	6	044.455	795.948	142.429			1
		14.0	207.042	263.748	102733	19.736	4109.330	164532.644	6240.943	42.00	28.00	1927893
		15.5	227.712	290.078	112341	19.679	4493.653	180783.600	6822.436	46.50	31.00	1920167
		15.75	231.128	294.431	113923	19.670	4556.931	183463.556	6917.758	47.25	31.50	1918880
		16.0	234.536	298.772	115499	19.662	4619.999	186135.263	7012.627	48.00	32.00	1917592
		18.0	261.510	333.134	127941	19.690	5117.654	207207.648	7755.309	54.00	36.00	1907291
		20.0	287.963	366.832	140126	19.610	5605.051	227731.612	8469.255	60.00	40.00	1896990
		25.0	351.817	448.175	169984	19.420	6799.385	247688.871	9154.712	75.00	50.00	1871238
600	±5.00	16.0	284.776	362.772	204030	23.850	6801.028	326005.339	10328.637	48.00	32.00	2317592
		18.0	318.030	405.134	226356	23.770	7545.229	363707.468	11457.379	54.00	36.00	2307291
		20.0	350.763	446.832	248168	23.690	8272.282	400659.286	12551.150	60.00	40.00	2296990

		24.0	414.667	528.238	290565	23.540	9685.529	472224.270	14634.873	72.00	48.00	2276388
		25.0	430.317	548.175	300973	23.500	10032.458	475273.437	14553.673	75.00	50.00	2271238
700	±6.00	16.0	335.016	426.772	329388	27.930	9411.095	512021.606	13958.994	48.00	32.00	2717592
		18.0	374.55	477.134	365981	27.850	10456.602	570986.222	15476.512	54.00	36.00	2707291
		20.0	413.563	526.832	401752	27.770	11478.635	644046.035	17432.549	60.00	40.00	2 696990

表 1 方形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 1 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of square steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
B	±Δ	t	M	A	$I_x = I_y$	$r_x = r_y$	$W_x = W_y$	I_t	C_t	R	r	A_s
700	±6.00	24.0	490.027	624.238	471152	27.610	13461.507	761569.164	20416.871	72.00	48.00	2676388
		25.0	508.817	648.175	488121	27.580	13946.330	768867.187	20423.328	75.00	50.00	2671238

800	±7.00	16.0	385.256	490.772	497972	32.010	12 449.311	771 024.486	18 499.760	48.00	32.00	311759 2
		18.0	431.070	549.134	554013	31.930	13850.350	860 781.182	20 548.581	54.00	36.00	310729 1
		20.0	476.363	606.832	608877	31.850	15 221.939	969 891.590	23 113.624	60.00	40.00	3096 990
		24.0	565.387	720.238	715399	31.700	17 884.988	1 149 495.208	27 158.232	72.00	48.00	307638 8
		25.0	587.317	748.175	741 428	31.660	18535.703	1 163 710.938	27 292.088	75.00	50.00	3 071 238
900	±8.00	20.0	539.163	686.832	877 544	35.940	19500.989	1362944.000	28 937.418	60.00	40.00	349699 0
		24.0	640.747	816.238	1 032 906	35.780	22 953.470	1 613 331.302	33 945.979	72.00	48.00	347638 8
		25.0	665.817	848.175	107089 3	35.740	23 797.632	1 674 804.688	35 160.235	75.00	50.00	347123 8
		30.0	789.217	1005.372	125635 2	35.540	27 918.951	1975 509.000	41 010.277	90.00	60.00	344548 6
		36.0	933.000	1188.535	147098 9	35.300	32 688.659	2321 901.158	47 559.091	108.00	72.00	3 414 583
		40.0	1026.252	1307.327	161093 2	35.150	35798.504	2 544 224.000	51650.740	120.00	80.00	3393 981

1000	±9.00	25.0	744.317	948.175	1486517	39.820	29730.350	2 317148.438	44027.948	75.00	50.00	3871238
		30.0	883.417	1125.372	1746580	39.620	34931.617	2738019.000	51500.880	90.00	60.00	3845486
		36.0	1046.040	1332.535	2047061	39.380	40941.234	3225028.838	59931.772	108.00	72.00	3814583
		40.0	1151.852	1467.327	2242020	39.230	44840.410	3 538944.000	65238.808	120.00	80.00	3793981
		50.0	1407.269	1792.699	2719753	38.840	54395.080	4 286875.000	77461.029	150.00	100.00	3 742477
注 1:表中边长 500 mm 以上规格的截面参数已经取整。 注 2:r 为计算值 $R-t$，非测量值。													
Side length mm	Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic section modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter mm^2/m
B	$\pm\Delta$	t	M	A	$I_x=I_y$	$r_x=r_y$	$W_x=W_y$	I_t	C_t	R	r	A_s
700	±6.00	24.0	490.027	624.238	471152	27.610	13461.507	761569.164	20416.871	72.00	48.00	2676388
		25.0	508.817	648.175	488121	27.580	13946.330	768867.187	20423.328	75.00	50.00	2671238
800	±7.00	16.	385.256	490.77	49797	32.01	12	771	18	48.00	32.00	311759

		0		2	2	0	449.311	024.486	499.760			2
		18.0	431.070	549.134	554013	31.930	13850.350	860781.182	20548.581	54.00	36.00	3107291
		20.0	476.363	606.832	608877	31.850	15221.939	969891.590	23113.624	60.00	40.00	3096990
		24.0	565.387	720.238	715399	31.700	17884.988	1 149495.208	27158.232	72.00	48.00	3076388
		25.0	587.317	748.175	741428	31.660	18535.703	1 163710.938	27292.088	75.00	50.00	3 071238
900	±8.00	20.0	539.163	686.832	877544	35.940	19500.989	1362944.000	28937.418	60.00	40.00	3496990
		24.0	640.747	816.238	1 032906	35.780	22953.470	1 613331.302	33945.979	72.00	48.00	3476388
		25.0	665.817	848.175	1070893	35.740	23797.632	1 674804.688	35160.235	75.00	50.00	3471238
		30.0	789.217	1005.372	1256352	35.540	27918.951	1975509.000	41010.277	90.00	60.00	3445486
		36.0	933.000	1188.535	1470989	35.300	32688.659	2321901.158	47559.091	108.00	72.00	3 414583
		40.0	1026.252	1307.327	1610932	35.150	35798.504	2 544224.000	51650.740	120.00	80.00	3393981

1000	±9.00	25.0	744.317	948.175	1486517	39.820	29730.350	2 317148.438	44027.948	75.00	50.00	3871238
		30.0	883.417	1125.372	1746580	39.620	34931.617	2738019.000	51500.880	90.00	60.00	3845486
		36.0	1046.040	1332.535	2047061	39.380	40941.234	3225028.838	59931.772	108.00	72.00	3814583
		40.0	1151.852	1467.327	2242020	39.230	44840.410	3 538944.000	65238.808	120.00	80.00	3793981
		50.0	1407.269	1792.699	2719753	38.840	54395.080	4 286875.000	77461.029	150.00	100.00	3 742477
Note 1: Sectional parameters for specifications with side lengths 500 mm and above in the table have been rounded. Note 2: r are calculated values $R-t$, not measured values.													

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
30	20	±0.50	1.5	1.061	1.352	1.608	0.862	1.091	0.799	1.072	0.862	1.830	1.397	3.00	1.50	94849

			1.7	1.185	1.510	1.773	0.953	1.084	0.794	1.182	0.953	2.024	1.529	3.40	1.70	94162
			1.8	1.246	1.587	1.852	0.998	1.080	0.793	1.235	0.998	2.116	1.591	3.60	1.80	93819
			2.0	1.364	1.737	2.007	1.087	1.075	0.791	1.338	1.087	2.292	1.707	4.00	2.00	93132
			2.2	1.477	1.882	2.157	1.179	1.071	0.791	1.438	1.179	2.455	1.812	4.40	2.20	92445
			2.5	1.640	2.089	2.379	1.322	1.067	0.796	1.586	1.322	2.678	1.950	5.00	2.50	91415
40	20	±0.50	1.5	1.297	1.652	3.288	1.119	1.411	0.823	1.644	1.119	2.742	1.910	3.00	1.50	114849
			1.7	1.452	1.850	3.633	1.238	1.401	0.818	1.816	1.238	3.039	2.099	3.40	1.70	114162
			1.8	1.528	1.947	3.799	1.297	1.397	0.816	1.900	1.297	3.181	2.188	3.60	1.80	113819
			2.0	1.678	2.137	4.12	1.413	1.388	0.813	2.060	1.413	3.453	2.355	4.00	2.00	113132
			2.2	1.823	2.322	4.426	1.529	1.381	0.811	2.213	1.529	3.708	2.510	4.40	2.20	112445
			2.5	2.032	2.589	4.865	1.708	1.371	0.812	2.433	1.708	4.061	2.718	5.00	2.50	111415

			2.75	2.200	2.803	5.217	1.867	1.364	0.816	2.609	1.867	4.327	2.871	5.50	2.750	110557
			3.0	2.361	3.008	5.562	2.039	1.360	0.823	2.781	2.039	4.567	3.005	6.00	3.00	109699
40	25	±0.50	1.5	1.415	1.802	3.844	1.861	1.461	1.016	1.922	1.489	4.063	2.464	3.00	1.50	124849
			1.7	1.586	2.020	4.257	2.061	1.452	1.010	2.128	1.649	4.520	2.719	3.40	1.70	124162
			1.8	1.670	2.127	4.456	2.158	1.447	1.007	2.228	1.727	4.741	2.840	3.60	1.80	123819
			2.0	1.835	2.337	4.842	2.349	1.439	1.003	2.421	1.879	5.169	3.072	4.00	2.00	123132
			2.2	1.995	2.542	5.213	2.536	1.432	0.999	2.606	2.029	5.576	3.289	4.40	2.20	122445
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
30	20	±0.50	1.5	1.061	1.352	1.608	0.862	1.091	0.799	1.072	0.862	1.830	1.397	3.00	1.50	94849

			1.7	1.185	1.510	1.773	0.953	1.084	0.794	1.182	0.953	2.024	1.529	3.40	1.70	94162
			1.8	1.246	1.587	1.852	0.998	1.080	0.793	1.235	0.998	2.116	1.591	3.60	1.80	93819
			2.0	1.364	1.737	2.007	1.087	1.075	0.791	1.338	1.087	2.292	1.707	4.00	2.00	93132
			2.2	1.477	1.882	2.157	1.179	1.071	0.791	1.438	1.179	2.455	1.812	4.40	2.20	92445
			2.5	1.640	2.089	2.379	1.322	1.067	0.796	1.586	1.322	2.678	1.950	5.00	2.50	91415
40	20	±0.50	1.5	1.297	1.652	3.288	1.119	1.411	0.823	1.644	1.119	2.742	1.910	3.00	1.50	114849
			1.7	1.452	1.850	3.633	1.238	1.401	0.818	1.816	1.238	3.039	2.099	3.40	1.70	114162
			1.8	1.528	1.947	3.799	1.297	1.397	0.816	1.900	1.297	3.181	2.188	3.60	1.80	113819
			2.0	1.678	2.137	4.12	1.413	1.388	0.813	2.060	1.413	3.453	2.355	4.00	2.00	113132
			2.2	1.823	2.322	4.426	1.529	1.381	0.811	2.213	1.529	3.708	2.510	4.40	2.20	112445
			2.5	2.032	2.589	4.865	1.708	1.371	0.812	2.433	1.708	4.061	2.718	5.00	2.50	111415

			2.75	2.200	2.803	5.217	1.867	1.364	0.816	2.609	1.867	4.327	2.871	5.50	2.750	110.557
			3.0	2.361	3.008	5.562	2.039	1.360	0.823	2.781	2.039	4.567	3.005	6.00	3.00	109.699
40	25	±0.50	1.5	1.415	1.802	3.844	1.861	1.461	1.016	1.922	1.489	4.063	2.464	3.00	1.50	124.849
			1.7	1.586	2.020	4.257	2.061	1.452	1.010	2.128	1.649	4.520	2.719	3.40	1.70	124.162
			1.8	1.670	2.127	4.456	2.158	1.447	1.007	2.228	1.727	4.741	2.840	3.60	1.80	123.819
			2.0	1.835	2.337	4.842	2.349	1.439	1.003	2.421	1.879	5.169	3.072	4.00	2.00	123.132
			2.2	1.995	2.542	5.213	2.536	1.432	0.999	2.606	2.029	5.576	3.289	4.40	2.20	122.445

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m

H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
40	25	±0.50	2.5	2.229	2.839	5.745	2.814	1.423	0.996	2.873	2.251	6.150	3.587	5.00	2.50	121415
			2.75	2.416	3.078	6.173	3.048	1.416	0.995	3.086	2.439	6.593	3.811	5.50	2.75	120557
			3.0	2.597	3.308	6.591	3.291	1.411	0.997	3.295	2.633	7.005	4.015	6.00	3.00	119699
40	30	±0.50	1.5	1.532	1.952	4.400	2.828	1.501	1.204	2.200	1.885	5.522	3.018	3.00	1.50	134849
			1.7	1.719	2.190	4.881	3.136	1.493	1.197	2.440	2.091	6.159	3.340	3.40	1.70	134162
			1.8	1.811	2.307	5.113	3.286	1.489	1.193	2.557	2.190	6.469	3.494	3.60	1.80	133819
			2.0	1.992	2.537	5.565	3.577	1.481	1.187	2.782	2.385	7.070	3.790	4.00	2.00	133132
			2.2	2.168	2.762	6.000	3.861	1.474	1.182	3.000	2.574	7.648	4.070	4.40	2.20	132445
			2.5	2.425	3.089	6.626	4.275	1.465	1.176	3.313	2.850	8.471	4.459	5.00	2.50	131415
			2.75	2.632	3.353	7.128	4.615	1.458	1.173	3.564	3.077	9.115	4.757	5.50	2.75	130557

			3.0	2.832	3.608	7.620	4.956	1.453	1.172	3.810	3.304	9.722	5.031	6.00	3.00	129699
50	25	±0.50	1.5	1.650	2.102	6.676	2.276	1.782	1.040	2.670	1.821	5.535	3.127	3.00	1.50	144849
			1.7	1.853	2.360	7.410	2.523	1.772	1.034	2.964	2.019	6.165	3.457	3.40	1.70	144162
			1.8	1.952	2.487	7.765	2.644	1.767	1.031	3.106	2.115	6.471	3.616	3.60	1.80	143819
			2.0	2.149	2.737	8.454	2.879	1.757	1.026	3.381	2.303	7.062	3.919	4.00	2.00	143132
			2.2	2.341	2.982	9.114	3.109	1.748	1.021	3.646	2.488	7.628	4.204	4.40	2.20	142445
			2.5	2.621	3.339	10.057	3.449	1.736	1.016	4.023	2.759	8.430	4.600	5.00	2.50	141415
			2.75	2.848	3.628	10.806	3.733	1.726	1.014	4.322	2.986	9.053	4.902	5.50	2.75	140557
			3.0	3.068	3.908	11.526	4.021	1.717	1.014	4.611	3.217	9.637	5.179	6.00	3.00	139699
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter mm^2/m

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					cm^2											
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
40	25	±0.50	2.5	2.229	2.839	5.745	2.814	1.423	0.996	2.873	2.251	6.150	3.587	5.00	2.50	121415
			2.75	2.416	3.078	6.173	3.048	1.416	0.995	3.086	2.439	6.593	3.811	5.50	2.75	120557
			3.0	2.597	3.308	6.591	3.291	1.411	0.997	3.295	2.633	7.005	4.015	6.00	3.00	119699
40	30	±0.50	1.5	1.532	1.952	4.400	2.828	1.501	1.204	2.200	1.885	5.522	3.018	3.00	1.50	134849
			1.7	1.719	2.190	4.881	3.136	1.493	1.197	2.440	2.091	6.159	3.340	3.40	1.70	134162
			1.8	1.811	2.307	5.113	3.286	1.489	1.193	2.557	2.190	6.469	3.494	3.60	1.80	133819
			2.0	1.992	2.537	5.565	3.577	1.481	1.187	2.782	2.385	7.070	3.790	4.00	2.00	133132
			2.2	2.168	2.762	6.000	3.861	1.474	1.182	3.000	2.574	7.648	4.070	4.40	2.20	132445
			2.5	2.425	3.089	6.626	4.275	1.465	1.176	3.313	2.850	8.471	4.459	5.00	2.50	131415
			2.	2.632	3.3	7.1	4.6	1.4	1.1	3.5	3.0	9.115	4.757	5.50	2.75	130

			75		53	28	15	58	73	64	77					557
			3.0	2.832	3.608	7.620	4.956	1.453	1.172	3.810	3.304	9.722	5.031	6.00	3.00	129699
50	25	±0.50	1.5	1.650	2.102	6.676	2.276	1.782	1.040	2.670	1.821	5.535	3.127	3.00	1.50	144849
			1.7	1.853	2.360	7.410	2.523	1.772	1.034	2.964	2.019	6.165	3.457	3.40	1.70	144162
			1.8	1.952	2.487	7.765	2.644	1.767	1.031	3.106	2.115	6.471	3.616	3.60	1.80	143819
			2.0	2.149	2.737	8.454	2.879	1.757	1.026	3.381	2.303	7.062	3.919	4.00	2.00	143132
			2.2	2.341	2.982	9.114	3.109	1.748	1.021	3.646	2.488	7.628	4.204	4.40	2.20	142445
			2.5	2.621	3.339	10.057	3.449	1.736	1.016	4.023	2.759	8.430	4.600	5.00	2.50	141415
			2.75	2.848	3.628	10.806	3.733	1.726	1.014	4.322	2.986	9.053	4.902	5.50	2.75	140557
			3.0	3.068	3.908	11.526	4.021	1.717	1.014	4.611	3.217	9.637	5.179	6.00	3.00	139699

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4 R		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
50	30	±0.50	1.5	1.768	2.252	7.558	3.438	1.832	1.235	3.023	2.292	7.604	3.830	3.00	1.50	154849
			1.7	1.986	2.530	8.402	3.817	1.822	1.228	3.361	2.545	8.492	4.247	3.40	1.70	154162
			1.8	2.094	2.667	8.811	4.002	1.818	1.225	3.525	2.668	8.924	4.448	3.60	1.80	153819
			2.0	2.306	2.937	9.606	4.363	1.809	1.219	3.843	2.908	9.767	4.835	4.00	2.00	153132
			2.2	2.513	3.202	10.372	4.712	1.800	1.213	4.149	3.142	10.579	5.203	4.40	2.20	152445
			2.5	2.817	3.589	11.469	5.223	1.788	1.206	4.588	3.482	11.742	5.719	5.00	2.50	151415
			2.75	3.064	3.903	12.343	5.639	1.778	1.202	4.937	3.760	12.658	6.118	5.50	2.75	150557
			3.0	3.303	4.208	13.185	6.054	1.770	1.199	5.274	4.036	13.528	6.489	6.00	3.00	149699

			3.5	3.764	4.795	14.802	6.901	1.757	1.200	5.921	4.601	15.124	7.152	7.00	3.50	147982
			3.75	3.984	5.075	15.588	7.345	1.753	1.203	6.235	4.897	15.851	7.446	7.50	3.75	147123
			4.0	4.198	5.348	16.370	7.812	1.750	1.209	6.548	5.208	16.530	7.714	8.00	4.00	146265
50	40	±0.50	1.5	2.003	2.552	9.323	6.625	1.911	1.611	3.729	3.312	12.258	5.239	3.00	1.50	174849
			1.7	2.253	2.870	10.386	7.376	1.902	1.603	4.154	3.688	13.728	5.830	3.40	1.70	174162
			1.8	2.376	3.027	10.903	7.742	1.898	1.599	4.361	3.871	14.449	6.116	3.60	1.80	173819
			2.0	2.620	3.337	11.912	8.456	1.889	1.592	4.765	4.228	15.862	6.673	4.00	2.00	173132
			2.2	2.859	3.642	12.887	9.147	1.881	1.585	5.155	4.573	17.235	7.206	4.40	2.20	172445
			2.5	3.210	4.089	14.292	10.146	1.870	1.575	5.717	5.073	19.222	7.965	5.00	2.50	171415
			2.75	3.495	4.453	15.416	10.951	1.861	1.568	6.166	5.476	20.810	8.560	5.50	2.75	170557
			3.0	3.774	4.808	16.503	11.736	1.853	1.562	6.601	5.868	22.336	9.123	6.00	3.00	169699

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Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4 R		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
50	30	±0.50	1.5	1.768	2.252	7.558	3.438	1.832	1.235	3.023	2.292	7.604	3.830	3.00	1.50	154849
			1.7	1.986	2.530	8.402	3.817	1.822	1.228	3.361	2.545	8.492	4.247	3.40	1.70	154162
			1.8	2.094	2.667	8.811	4.002	1.818	1.225	3.525	2.668	8.924	4.448	3.60	1.80	153819
			2.0	2.306	2.937	9.606	4.363	1.809	1.219	3.843	2.908	9.767	4.835	4.00	2.00	153132
			2.2	2.513	3.202	10.372	4.712	1.800	1.213	4.149	3.142	10.579	5.203	4.40	2.20	152445
			2.5	2.817	3.589	11.469	5.223	1.788	1.206	4.588	3.482	11.742	5.719	5.00	2.50	151415
			2.75	3.064	3.903	12.343	5.639	1.778	1.202	4.937	3.760	12.658	6.118	5.50	2.75	150557
			3.0	3.303	4.208	13.185	6.054	1.770	1.199	5.274	4.036	13.528	6.489	6.00	3.00	149699

			3.5	3.764	4.795	14.802	6.901	1.757	1.200	5.921	4.601	15.124	7.152	7.00	3.50	147982
			3.75	3.984	5.075	15.588	7.345	1.753	1.203	6.235	4.897	15.851	7.446	7.50	3.75	147123
			4.0	4.198	5.348	16.370	7.812	1.750	1.209	6.548	5.208	16.530	7.714	8.00	4.00	146265
50	40	±0.50	1.5	2.003	2.552	9.323	6.625	1.911	1.611	3.729	3.312	12.258	5.239	3.00	1.50	174849
			1.7	2.253	2.870	10.386	7.376	1.902	1.603	4.154	3.688	13.728	5.830	3.40	1.70	174162
			1.8	2.376	3.027	10.903	7.742	1.898	1.599	4.361	3.871	14.449	6.116	3.60	1.80	173819
			2.0	2.620	3.337	11.912	8.456	1.889	1.592	4.765	4.228	15.862	6.673	4.00	2.00	173132
			2.2	2.859	3.642	12.887	9.147	1.881	1.585	5.155	4.573	17.235	7.206	4.40	2.20	172445
			2.5	3.210	4.089	14.292	10.146	1.870	1.575	5.717	5.073	19.222	7.965	5.00	2.50	171415
			2.75	3.495	4.453	15.416	10.951	1.861	1.568	6.166	5.476	20.810	8.560	5.50	2.75	170557
			3.0	3.774	4.808	16.503	11.736	1.853	1.562	6.601	5.868	22.336	9.123	6.00	3.00	169699

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
50	40	±0.50	3.5	4.313	5.495	18.593	13.269	1.840	1.554	7.437	6.634	25.203	10.154	7.00	3.50	167982
			3.75	4.573	5.825	19.608	14.030	1.835	1.552	7.843	7.015	26.543	10.623	7.50	3.75	167123
			4.0	4.826	6.148	20.613	14.797	1.831	1.551	8.245	7.399	27.820	11.063	8.00	4.00	166265
55	25	±0.50 A	1.5	1.768	2.252	8.476	2.483	1.940	1.050	3.082	1.986	6.290	3.458	3.00	1.50	154849
			1.7	1.986	2.530	9.418	2.754	1.929	1.043	3.425	2.203	7.008	3.827	3.40	1.70	154162
			2.0	2.306	2.937	10.760	3.144	1.914	1.035	3.913	2.516	8.032	4.342	4.00	2.00	153132

55	40	±0.50	1.5	2.121	2.702	11.697	7.181	2.081	1.630	4.254	3.590	14.092	5.794	3.00	1.50	184849
			1.7	2.386	3.040	13.042	8.000	2.071	1.622	4.742	4.000	15.789	6.453	3.40	1.70	184162
			2.0	2.777	3.537	14.976	9.178	2.058	1.611	5.446	4.589	18.255	7.394	4.00	2.00	183132
55	50	±0.60	1.7	2.653	3.380	15.457	13.361	2.139	1.988	5.621	5.345	22.601	8.207	3.40	1.70	204162
			2.0	3.091	3.937	17.786	15.370	2.125	1.976	6.468	6.148	26.195	9.433	4.00	2.00	203132
60	30	±0.60	2.0	2.620	3.337	15.116	5.148	2.128	1.242	5.039	3.432	12.570	5.881	4.00	2.00	173132
			2.2	2.859	3.642	16.344	5.564	2.118	1.236	5.448	3.710	13.625	6.337	4.40	2.20	172445
			2.5	3.210	4.089	18.107	6.171	2.104	1.228	6.036	4.114	15.140	6.981	5.00	2.50	171415
			2.75	3.495	4.453	19.508	6.664	2.093	1.223	6.503	4.443	16.338	7.481	5.50	2.75	170557
			3.0	3.774	4.808	20.855	7.152	2.083	1.220	6.952	4.768	17.479	7.950	6.00	3.00	169699
			3.5	4.313	5.495	23.409	8.137	2.064	1.217	7.803	5.425	19.589	8.795	7.00	3.50	167982

			3.75	4.573	5.825	24.630	8.646	2.056	1.218	8.210	5.764	20.558	9.173	7.50	3.75	167123
			4.0	4.826	6.148	25.823	9.175	2.049	1.222	8.608	6.117	21.469	9.523	8.00	4.00	166265
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
50	40	±0.50	3.5	4.313	5.495	18.593	13.269	1.840	1.554	7.437	6.634	25.203	10.154	7.00	3.50	167982
			3.75	4.573	5.825	19.608	14.030	1.835	1.552	7.843	7.015	26.543	10.623	7.50	3.75	167123
			4.0	4.826	6.148	20.613	14.797	1.831	1.551	8.245	7.399	27.820	11.063	8.00	4.00	166265
55	25	±0.50A	1.5	1.768	2.252	8.476	2.483	1.940	1.050	3.082	1.986	6.290	3.458	3.00	1.50	154849
			1.7	1.986	2.530	9.418	2.754	1.929	1.043	3.425	2.203	7.008	3.827	3.40	1.70	154162
			2.0	2.306	2.937	10.760	3.144	1.914	1.035	3.913	2.516	8.032	4.342	4.00	2.00	153132

55	40	±0.50	1.5	2.121	2.702	11.697	7.181	2.081	1.630	4.254	3.590	14.092	5.794	3.00	1.50	184849
			1.7	2.386	3.040	13.042	8.000	2.071	1.622	4.742	4.000	15.789	6.453	3.40	1.70	184162
			2.0	2.777	3.537	14.976	9.178	2.058	1.611	5.446	4.589	18.255	7.394	4.00	2.00	183132
55	50	±0.60	1.7	2.653	3.380	15.457	13.361	2.139	1.988	5.621	5.345	22.601	8.207	3.40	1.70	204162
			2.0	3.091	3.937	17.786	15.370	2.125	1.976	6.468	6.148	26.195	9.433	4.00	2.00	203132
60	30	±0.60	2.0	2.620	3.337	15.116	5.148	2.128	1.242	5.039	3.432	12.570	5.881	4.00	2.00	173132
			2.2	2.859	3.642	16.344	5.564	2.118	1.236	5.448	3.710	13.625	6.337	4.40	2.20	172445
			2.5	3.210	4.089	18.107	6.171	2.104	1.228	6.036	4.114	15.140	6.981	5.00	2.50	171415
			2.75	3.495	4.453	19.508	6.664	2.093	1.223	6.503	4.443	16.338	7.481	5.50	2.75	170557
			3.0	3.774	4.808	20.855	7.152	2.083	1.220	6.952	4.768	17.479	7.950	6.00	3.00	169699
			3.5	4.313	5.495	23.409	8.137	2.064	1.217	7.803	5.425	19.589	8.795	7.00	3.50	167982

			3.75	4.573	5.825	24.630	8.646	2.056	1.218	8.210	5.764	20.558	9.173	7.50	3.75	167123
			4.0	4.826	6.148	25.823	9.175	2.049	1.222	8.608	6.117	21.469	9.523	8.00	4.00	166265

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
60	40	±0.60	2.0	2.934	3.737	18.482	9.901	2.224	1.628	6.161	4.950	20.702	8.116	4.00	2.00	193132
			2.2	3.204	4.082	20.021	10.720	2.215	1.621	6.674	5.360	22.514	8.777	4.40	2.20	192445
			2.5	3.602	4.589	22.242	11.907	2.202	1.611	7.414	5.953	25.142	9.722	5.00	2.50	191415
			2.75	3.927	5.003	24.018	12.862	2.191	1.603	8.006	6.431	27.250	10.467	5.50	2.75	190557

			3.0	4.245	5.408	25.733	13.794	2.181	1.597	8.578	6.897	29.284	11.175	6.00	3.00	189699
			3.5	4.863	6.195	29.003	15.607	2.164	1.587	9.668	7.804	33.127	12.483	7.00	3.50	187982
			3.75	5.162	6.575	30.571	16.503	2.156	1.584	10.190	8.251	34.935	13.085	7.50	3.75	187123
			4.0	5.454	6.948	32.105	17.400	2.150	1.582	10.702	8.700	36.669	13.653	8.00	4.00	186265
70	50	±0.60	2.0	3.562	4.537	31.545	18.828	2.637	2.037	9.013	7.531	37.454	12.196	4.00	2.00	233132
			2.2	3.895	4.962	34.255	20.432	2.627	2.029	9.787	8.173	40.825	13.231	4.40	2.20	232445
			2.5	4.387	5.589	38.185	22.761	2.614	2.018	10.910	9.104	45.754	14.724	5.00	2.50	231415
			2.75	4.791	6.103	41.344	24.636	2.603	2.009	11.813	9.854	49.743	15.915	5.50	2.75	230557
			3.0	5.187	6.608	44.405	26.457	2.592	2.001	12.687	10.583	53.624	17.060	6.00	3.00	229699
			3.5	5.962	7.595	50.256	29.966	2.572	1.986	14.359	11.986	61.064	19.212	7.00	3.50	227982
			3.75	6.339	8.075	53.060	31.667	2.563	1.980	15.160	12.667	64.621	20.222	7.50	3.75	227123

			4.0	6.710	8.548	55.795	33.341	2.555	1.975	15.941	13.336	68.070	21.189	8.00	4.00	226265
			4.5	7.433	9.469	61.085	36.643	2.540	1.967	17.453	14.657	74.640	22.997	9.00	4.50	224548
			4.75	7.784	9.916	63.658	38.287	2.534	1.965	18.188	15.315	77.76	23.840	9.50	4.75	223690
			5.0	8.130	10.356	66.196	39.938	2.528	1.964	18.913	15.975	80.772	24.642	10.00	5.00	222831
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
60	40	±0.60	2.0	2.934	3.737	18.482	9.901	2.224	1.628	6.161	4.950	20.702	8.116	4.00	2.00	193132
			2.2	3.204	4.082	20.021	10.720	2.215	1.621	6.674	5.360	22.514	8.777	4.40	2.20	192445
			2.5	3.602	4.589	22.242	11.907	2.202	1.611	7.414	5.953	25.142	9.722	5.00	2.50	191415
			2.	3.927	5.00	24.	12.	2.	1.	8.0	6.4	27.25	10.46	5.50	2.75	190

			75		3	018	862	191	603	06	31	0	7			557
			3.0	4.245	5.408	25.733	13.794	2.181	1.597	8.578	6.897	29.284	11.175	6.00	3.00	189699
			3.5	4.863	6.195	29.003	15.607	2.164	1.587	9.668	7.804	33.127	12.483	7.00	3.50	187982
			3.75	5.162	6.575	30.571	16.503	2.156	1.584	10.190	8.251	34.935	13.085	7.50	3.75	187123
			4.0	5.454	6.948	32.105	17.400	2.150	1.582	10.702	8.700	36.669	13.653	8.00	4.00	186265
70	50	±0.60	2.0	3.562	4.537	31.545	18.828	2.637	2.037	9.013	7.531	37.454	12.196	4.00	2.00	233132
			2.2	3.895	4.962	34.255	20.432	2.627	2.029	9.787	8.173	40.825	13.231	4.40	2.20	232445
			2.5	4.387	5.589	38.185	22.761	2.614	2.018	10.910	9.104	45.754	14.724	5.00	2.50	231415
			2.75	4.791	6.103	41.344	24.636	2.603	2.009	11.813	9.854	49.743	15.915	5.50	2.75	230557
			3.0	5.187	6.608	44.405	26.457	2.592	2.001	12.687	10.583	53.624	17.060	6.00	3.00	229699
			3.5	5.962	7.595	50.256	29.966	2.572	1.986	14.359	11.986	61.064	19.212	7.00	3.50	227982

			3.75	6.339	8.075	53.060	31.667	2.563	1.980	15.160	12.667	64.621	20.222	7.50	3.75	227123
			4.0	6.710	8.548	55.795	33.341	2.555	1.975	15.941	13.336	68.070	21.189	8.00	4.00	226265
			4.5	7.433	9.469	61.085	36.643	2.540	1.967	17.453	14.657	74.640	22.997	9.00	4.50	224548
			4.75	7.784	9.916	63.658	38.287	2.534	1.965	18.188	15.315	77.76	23.840	9.50	4.75	223690
			5.0	8.130	10.356	66.196	39.938	2.528	1.964	18.913	15.975	80.772	24.642	10.00	5.00	222831

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s

80	40	±0.70	2.0	3.562	4.537	37.427	12.792	2.872	1.679	9.357	6.396	30.881	11.004	4.00	2.00	233132
			2.2	3.895	4.962	40.632	13.867	2.862	1.672	10.158	6.934	33.611	11.921	4.40	2.20	232445
			2.5	4.387	5.589	45.276	15.428	2.846	1.661	11.319	7.714	37.584	13.238	5.00	2.50	231415
			2.75	4.791	6.103	49.003	16.685	2.834	1.653	12.251	8.343	40.782	14.284	5.50	2.75	230557
			3.0	5.187	6.608	52.605	17.910	2.821	1.646	13.151	8.955	43.879	15.283	6.00	3.00	229699
			3.5	5.962	7.595	59.464	20.285	2.798	1.634	14.866	10.142	49.765	17.150	7.00	3.50	227982
			3.75	6.339	8.075	62.736	21.448	2.787	1.630	15.684	10.724	52.556	18.018	7.50	3.75	227123
			4.0	6.710	8.548	65.912	22.605	2.777	1.626	16.478	11.303	55.244	18.844	8.00	4.00	226265
			4.5	7.433	9.469	72.015	24.930	2.758	1.623	18.004	12.465	60.313	20.373	9.00	4.50	224548
			4.75	7.784	9.916	74.958	26.115	2.749	1.623	18.740	13.058	62.695	21.078	9.50	4.75	223690
			5.0	8.130	10.356	77.842	27.326	2.742	1.624	19.461	13.663	64.974	21.744	10.00	5.00	222831

80	50	±0.70	2.5	4.780	6.089	52.787	25.583	2.944	2.050	13.197	10.233	55.402	16.979	5.00	2.50	251415
			2.75	5.222	6.653	57.212	27.709	2.933	2.041	14.303	11.084	60.263	18.370	5.50	2.75	250557
			3.0	5.658	7.208	61.503	29.775	2.921	2.032	15.376	11.910	65.000	19.710	6.00	3.00	249699
			3.5	6.511	8.295	69.713	33.757	2.899	2.017	17.428	13.503	74.101	22.239	7.00	3.50	247982
			3.75	6.928	8.825	73.646	35.686	2.889	2.011	18.411	14.274	78.465	23.430	7.50	3.750	247123
			4.0	7.338	9.348	77.475	37.584	2.879	2.005	19.369	15.033	82.703	24.574	8.00	4.00	246265
			4.5	8.139	10.369	84.856	41.316	2.861	1.996	21.214	16.526	90.803	26.723	9.00	4.50	244548
			4.75	8.530	10.866	88.425	43.167	2.853	1.993	22.106	17.267	94.664	27.730	9.50	4.75	243690
			5.0	8.915	11.356	91.926	45.021	2.845	1.991	22.981	18.009	98.400	28.693	10.00	5.00	242831
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length	Cross-sectional area	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length

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				kg/m	cm^2											mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
80	40	±0.70	2.0	3.562	4.537	37.427	12.792	2.872	1.679	9.357	6.396	30.881	11.004	4.00	2.00	233132
			2.2	3.895	4.962	40.632	13.867	2.862	1.672	10.158	6.934	33.611	11.921	4.40	2.20	232445
			2.5	4.387	5.589	45.276	15.428	2.846	1.661	11.319	7.714	37.584	13.238	5.00	2.50	231415
			2.75	4.791	6.103	49.003	16.685	2.834	1.653	12.251	8.343	40.782	14.284	5.50	2.75	230557
			3.0	5.187	6.608	52.605	17.910	2.821	1.646	13.151	8.955	43.879	15.283	6.00	3.00	229699
			3.5	5.962	7.595	59.464	20.285	2.798	1.634	14.866	10.142	49.765	17.150	7.00	3.50	227982
			3.75	6.339	8.075	62.736	21.448	2.787	1.630	15.684	10.724	52.556	18.018	7.50	3.75	227123
			4.0	6.710	8.548	65.912	22.605	2.777	1.626	16.478	11.303	55.244	18.844	8.00	4.00	226265
			4.5	7.433	9.469	72.015	24.930	2.758	1.623	18.004	12.465	60.313	20.373	9.00	4.50	224548
			4.	7.784	9.9	74.	26.	2.7	1.6	18.	13.	62.69	21.07	9.50	4.75	223

			75		16	958	115	49	23	740	058	5	8			690
			5.0	8.130	10.356	77.842	27.326	2.742	1.624	19.461	13.663	64.974	21.744	10.00	5.00	222831
80	50	±0.70	2.5	4.780	6.089	52.787	25.583	2.944	2.050	13.197	10.233	55.402	16.979	5.00	2.50	251415
			2.75	5.222	6.653	57.212	27.709	2.933	2.041	14.303	11.084	60.263	18.370	5.50	2.75	250557
			3.0	5.658	7.208	61.503	29.775	2.921	2.032	15.376	11.910	65.000	19.710	6.00	3.00	249699
			3.5	6.511	8.295	69.713	33.757	2.899	2.017	17.428	13.503	74.101	22.239	7.00	3.50	247982
			3.75	6.928	8.825	73.646	35.686	2.889	2.011	18.411	14.274	78.465	23.430	7.50	3.750	247123
			4.0	7.338	9.348	77.475	37.584	2.879	2.005	19.369	15.033	82.703	24.574	8.00	4.00	246265
			4.5	8.139	10.369	84.856	41.316	2.861	1.996	21.214	16.526	90.803	26.723	9.00	4.50	244548
			4.75	8.530	10.866	88.425	43.167	2.853	1.993	22.106	17.267	94.664	27.730	9.50	4.75	243690
			5.0	8.915	11.356	91.926	45.021	2.845	1.991	22.981	18.009	98.400	28.693	10.00	5.00	242831

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
80	60	±0.70	3.0	6.129	7.808	70.401	45.245	3.003	2.407	17.600	15.082	88.346	24.143	6.00	3.00	269699
			3.5	7.061	8.995	79.961	51.377	2.982	2.390	19.990	17.126	101.030	27.340	7.00	3.50	267982
			3.75	7.517	9.575	84.556	54.337	2.972	2.382	21.139	18.112	107.151	28.857	7.50	3.75	267123
			4.0	7.966	10.148	89.038	57.236	2.962	2.375	22.259	19.079	113.125	30.322	8.00	4.00	266265
			4.5	8.846	11.269	97.696	62.886	2.944	2.362	24.424	20.962	124.627	33.097	9.00	4.50	264548
			4.75	9.276	11.816	101.891	65.653	2.936	2.357	25.473	21.884	130.155	34.410	9.50	4.75	263690
			5.0	9.700	12.356	106.009	68.395	2.929	2.353	26.502	22.798	135.534	35.673	10.00	5.00	262831

90	40	±0.75	3.0	5.658	7.208	70.847	19.968	3.135	1.664	15.744	9.984	51.409	17.339	6.00	3.00	249699
			4.0	7.338	9.348	89.027	25.208	3.086	1.642	19.784	12.604	64.819	21.441	8.00	4.00	246265
			5.0	8.915	11.356	105.250	30.409	3.044	1.636	23.389	15.205	76.374	24.819	10.00	5.00	242831
90	50	±0.75	2.0	4.190	5.337	57.948	23.438	3.295	2.096	12.877	9.375	53.366	15.882	4.00	2.00	273132
			2.5	5.172	6.589	70.433	28.406	3.269	2.076	15.652	11.363	65.299	19.235	5.00	2.50	271415
			3.0	6.129	7.808	82.205	33.093	3.245	2.059	18.268	13.237	76.668	22.361	6.00	3.00	269699
			4.0	7.966	10.148	103.830	41.826	3.199	2.030	23.073	16.730	97.704	27.961	8.00	4.00	266265
			5.0	9.700	12.356	123.333	50.105	3.159	2.014	27.407	20.042	116.466	32.747	10.00	5.00	262831
90	55	±0.75	2.0	4.347	5.537	61.820	29.027	3.341	2.290	13.738	10.555	62.724	17.601	4.00	2.00	283132
			2.5	5.369	6.839	75.220	35.235	3.316	2.270	16.716	12.813	76.877	21.357	5.00	2.50	281415
90	60	±0.75	3.0	6.600	8.408	93.563	50.123	3.336	2.442	20.792	16.708	104.805	27.391	6.00	3.00	289699

			3.5	7.610	9.695	106.418	56.971	3.313	2.424	23.648	18.990	119.955	31.062	7.00	3.50	287982
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer radius mm	Nominal inner radius mm	Surface area per meter mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
80	60	±0.70	3.0	6.129	7.808	70.401	45.245	3.003	2.407	17.600	15.082	88.346	24.143	6.00	3.00	269699
			3.5	7.061	8.995	79.961	51.377	2.982	2.390	19.990	17.126	101.030	27.340	7.00	3.50	267982
			3.75	7.517	9.575	84.556	54.337	2.972	2.382	21.139	18.112	107.151	28.857	7.50	3.75	267123
			4.0	7.966	10.148	89.038	57.236	2.962	2.375	22.259	19.079	113.125	30.322	8.00	4.00	266265
			4.5	8.846	11.269	97.696	62.886	2.944	2.362	24.424	20.962	124.627	33.097	9.00	4.50	264548
			4.75	9.276	11.816	101.891	65.653	2.936	2.357	25.473	21.884	130.155	34.410	9.50	4.75	263690
			5.0	9.700	12.356	106.009	68.395	2.929	2.353	26.502	22.798	135.534	35.673	10.00	5.00	262831

90	40	±0.75	3.0	5.658	7.208	70.847	19.968	3.135	1.664	15.744	9.984	51.409	17.339	6.00	3.00	249699
			4.0	7.338	9.348	89.027	25.208	3.086	1.642	19.784	12.604	64.819	21.441	8.00	4.00	246265
			5.0	8.915	11.356	105.250	30.409	3.044	1.636	23.389	15.205	76.374	24.819	10.00	5.00	242831
90	50	±0.75	2.0	4.190	5.337	57.948	23.438	3.295	2.096	12.877	9.375	53.366	15.882	4.00	2.00	273132
			2.5	5.172	6.589	70.433	28.406	3.269	2.076	15.652	11.363	65.299	19.235	5.00	2.50	271415
			3.0	6.129	7.808	82.205	33.093	3.245	2.059	18.268	13.237	76.668	22.361	6.00	3.00	269699
			4.0	7.966	10.148	103.830	41.826	3.199	2.030	23.073	16.730	97.704	27.961	8.00	4.00	266265
			5.0	9.700	12.356	123.333	50.105	3.159	2.014	27.407	20.042	116.466	32.747	10.00	5.00	262831
90	55	±0.75	2.0	4.347	5.537	61.820	29.027	3.341	2.290	13.738	10.555	62.724	17.601	4.00	2.00	283132
			2.5	5.369	6.839	75.220	35.235	3.316	2.270	16.716	12.813	76.877	21.357	5.00	2.50	281415
90	60	±0.75	3.0	6.600	8.408	93.563	50.123	3.336	2.442	20.792	16.708	104.805	27.391	6.00	3.00	289699

			3.5	7.610	9.695	106.418	56.971	3.313	2.424	23.648	18.990	119.955	31.062	7.00	3.50	287.982

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
90	60	±0.75	3.75	8.105	10.325	112.601	60.278	3.302	2.416	25.022	20.093	127.280	32.810	7.50	3.75	287.123
			4.0	8.594	10.948	118.632	63.519	3.292	2.409	26.363	21.173	134.437	34.501	8.00	4.00	286.265
			4.5	9.552	12.169	130.274	69.831	3.272	2.396	28.950	23.277	148.248	37.715	9.00	4.50	284.548
			4.75	10.022	12.766	135.903	72.921	3.263	2.390	30.201	24.307	154.902	39.240	9.50	4.75	283.690
			5.0	10.485	13.356	141.417	75.978	3.254	2.385	31.426	25.326	161.387	40.712	10.00	5.00	282.831

90	50	±0.75	2.0	4.347	5.537	66.154	24.591	3.457	2.107	13.927	9.836	57.458	16.804	4.00	2.00	283132
			2.5	5.369	6.839	80.476	29.818	3.43	2.088	16.942	11.927	70.324	20.364	5.00	2.50	281415
100	40	±0.80	2.5	5.172	6.589	79.489	18.948	3.473	1.696	15.898	9.474	50.524	16.756	5.00	2.50	271415
			3.0	6.129	7.808	92.693	22.026	3.445	1.680	18.539	11.013	59.048	19.395	6.00	3.00	269699
			4.0	7.966	10.148	116.815	27.810	3.393	1.655	23.363	13.905	74.527	24.040	8.00	4.00	266265
			5.0	9.700	12.356	138.336	33.493	3.346	1.646	27.667	16.746	87.924	27.896	10.00	5.00	262831
100	50	±0.80	2.5	5.565	7.089	91.374	31.229	3.590	2.099	18.275	12.492	75.393	21.492	5.00	2.50	291415
			2.75	6.086	7.753	99.200	33.855	3.577	2.090	19.840	13.542	82.058	23.282	5.50	2.75	290557
			3.0	6.600	8.408	106.811	36.411	3.564	2.081	21.362	14.565	88.564	25.012	6.00	3.00	289699
			3.5	7.610	9.695	121.418	41.339	3.539	2.065	24.284	16.536	101.098	28.295	7.00	3.50	287982
			3.75	8.105	10.325	128.43	43.725	3.527	2.058	25.686	17.490	107.126	29.850	7.50	3.75	287123

			4.0	8.594	10.948	135.258	46.069	3.515	2.051	27.052	18.428	112.994	31.350	8.00	4.00	286265
			4.5	9.552	12.169	148.400	50.662	3.492	2.040	29.680	20.265	124.252	34.183	9.00	4.50	284548
			4.75	10.022	12.766	154.732	52.929	3.481	2.036	30.946	21.172	129.642	35.520	9.50	4.75	283690
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer radius mm	Nominal inner radius mm	Surface area per meter mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
90	60	±0.75	3.75	8.105	10.325	112.601	60.278	3.302	2.416	25.022	20.093	127.280	32.810	7.50	3.75	287123
			4.0	8.594	10.948	118.632	63.519	3.292	2.409	26.363	21.173	134.437	34.501	8.00	4.00	286265
			4.5	9.552	12.169	130.274	69.831	3.272	2.396	28.950	23.277	148.248	37.715	9.00	4.50	284548
			4.75	10.022	12.766	135.903	72.921	3.263	2.390	30.201	24.307	154.902	39.240	9.50	4.75	283690
			5.0	10.485	13.356	141.417	75.978	3.254	2.385	31.426	25.326	161.387	40.712	10.00	5.00	282831

90	50	±0.75	2.0	4.347	5.537	66.154	24.591	3.457	2.107	13.927	9.836	57.458	16.804	4.00	2.00	283132
			2.5	5.369	6.839	80.476	29.818	3.43	2.088	16.942	11.927	70.324	20.364	5.00	2.50	281415
100	40	±0.80	2.5	5.172	6.589	79.489	18.948	3.473	1.696	15.898	9.474	50.524	16.756	5.00	2.50	271415
			3.0	6.129	7.808	92.693	22.026	3.445	1.680	18.539	11.013	59.048	19.395	6.00	3.00	269699
			4.0	7.966	10.148	116.815	27.810	3.393	1.655	23.363	13.905	74.527	24.040	8.00	4.00	266265
			5.0	9.700	12.356	138.336	33.493	3.346	1.646	27.667	16.746	87.924	27.896	10.00	5.00	262831
100	50	±0.80	2.5	5.565	7.089	91.374	31.229	3.590	2.099	18.275	12.492	75.393	21.492	5.00	2.50	291415
			2.75	6.086	7.753	99.200	33.855	3.577	2.090	19.840	13.542	82.058	23.282	5.50	2.75	290557
			3.0	6.600	8.408	106.811	36.411	3.564	2.081	21.362	14.565	88.564	25.012	6.00	3.00	289699
			3.5	7.610	9.695	121.418	41.339	3.539	2.065	24.284	16.536	101.098	28.295	7.00	3.50	287982
			3.75	8.105	10.325	128.43	43.725	3.527	2.058	25.686	17.490	107.126	29.850	7.50	3.75	287123

			4.0	8.594	10.948	135.258	46.069	3.515	2.051	27.052	18.428	112.994	31.350	8.00	4.00	286265
			4.5	9.552	12.169	148.400	50.662	3.492	2.040	29.680	20.265	124.252	34.183	9.00	4.50	284548
			4.75	10.022	12.766	154.732	52.929	3.481	2.036	30.946	21.172	129.642	35.520	9.50	4.75	283690

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
100	50	±0.80	5.0	10.485	13.356	160.919	55.188	3.471	2.033	32.184	22.075	134.872	36.804	10.00	5.00	282831
			5.5	11.391	14.511	172.897	59.721	3.452	2.029	34.579	23.888	144.853	39.219	11.00	5.50	281114
			5.75	11.835	15.076	178.711	62.016	3.443	2.028	35.742	24.806	149.605	40.351	11.50	5.75	280256

100	60	±0.80	2.5	5.957	7.589	103.260	47.055	3.689	2.490	20.652	15.685	103.250	26.234	5.00	2.50	311415
			2.75	6.518	8.303	112.208	51.079	3.676	2.480	22.442	17.026	112.554	28.470	5.50	2.75	310557
			3.0	7.071	9.008	120.929	55.001	3.664	2.471	24.186	18.334	121.671	30.639	6.00	3.00	309699
			3.5	8.160	10.395	137.722	62.564	3.640	2.453	27.544	20.855	139.345	34.786	7.00	3.50	307982
			3.75	8.694	11.075	145.809	66.220	3.628	2.445	29.162	22.073	147.901	36.765	7.50	3.75	307123
			4	9.222	11.748	153.701	69.801	3.617	2.438	30.740	23.267	156.269	38.682	8.00	4.00	306265
			4.5	10.259	13.069	168.936	76.777	3.595	2.424	33.787	25.592	172.443	42.336	9.00	4.50	304548
			4.75	10.767	13.716	176.298	80.188	3.585	2.418	35.260	26.729	180.248	44.074	9.50	4.75	303690
			5.0	11.270	14.356	183.502	83.561	3.575	2.413	36.700	27.854	187.864	45.755	10.00	5.00	302831
100	80	±0.80	2.5	6.742	8.589	127.031	90.339	3.846	3.243	25.406	22.585	165.839	35.728	5.00	2.50	351415
			2.75	7.381	9.403	138.223	98.256	3.834	3.233	27.645	24.564	181.103	38.856	5.50	2.75	350557

			3.0	8.013	10.208	149.165	105.993	3.823	3.222	29.833	26.498	196.124	41.909	6.00	3.00	349699
			3.5	9.259	11.795	170.329	120.956	3.800	3.202	34.066	30.239	225.441	47.790	7.00	3.50	347982
			3.75	9.872	12.575	180.567	128.197	3.789	3.193	36.113	32.049	239.735	50.621	7.50	3.75	347123
			4.0	10.478	13.348	190.586	135.288	3.779	3.184	38.117	33.822	253.786	53.381	8.00	4.00	346265
			4.5	11.672	14.869	210.007	149.059	3.758	3.166	42.001	37.265	281.156	58.687	9.00	4.50	344548
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
100	50	±0.80	5.0	10.485	13.356	160.919	55.188	3.471	2.033	32.184	22.075	134.872	36.804	10.00	5.00	282831
			5.5	11.391	14.511	172.897	59.721	3.452	2.029	34.579	23.888	144.853	39.219	11.00	5.50	281114
			5.75	11.835	15.076	178.711	62.016	3.443	2.028	35.742	24.806	149.605	40.351	11.50	5.75	280256

100	60	±0.80	2.5	5.957	7.589	103.260	47.055	3.689	2.490	20.652	15.685	103.250	26.234	5.00	2.50	311415
			2.75	6.518	8.303	112.208	51.079	3.676	2.480	22.442	17.026	112.554	28.470	5.50	2.75	310557
			3.0	7.071	9.008	120.929	55.001	3.664	2.471	24.186	18.334	121.671	30.639	6.00	3.00	309699
			3.5	8.160	10.395	137.722	62.564	3.640	2.453	27.544	20.855	139.345	34.786	7.00	3.50	307982
			3.75	8.694	11.075	145.809	66.220	3.628	2.445	29.162	22.073	147.901	36.765	7.50	3.75	307123
			4	9.222	11.748	153.701	69.801	3.617	2.438	30.740	23.267	156.269	38.682	8.00	4.00	306265
			4.5	10.259	13.069	168.936	76.777	3.595	2.424	33.787	25.592	172.443	42.336	9.00	4.50	304548
			4.75	10.767	13.716	176.298	80.188	3.585	2.418	35.260	26.729	180.248	44.074	9.50	4.75	303690
			5.0	11.270	14.356	183.502	83.561	3.575	2.413	36.700	27.854	187.864	45.755	10.00	5.00	302831
100	80	±0.80	2.5	6.742	8.589	127.031	90.339	3.846	3.243	25.406	22.585	165.839	35.728	5.00	2.50	351415
			2.75	7.381	9.403	138.223	98.256	3.834	3.233	27.645	24.564	181.103	38.856	5.50	2.75	350557

			3.0	8.013	10.208	149.165	105.993	3.823	3.222	29.833	26.498	196.124	41.909	6.00	3.00	349699
			3.5	9.259	11.795	170.329	120.956	3.800	3.202	34.066	30.239	225.441	47.790	7.00	3.50	347982
			3.75	9.872	12.575	180.567	128.197	3.789	3.193	36.113	32.049	239.735	50.621	7.50	3.75	347123
			4.0	10.478	13.348	190.586	135.288	3.779	3.184	38.117	33.822	253.786	53.381	8.00	4.00	346265
			4.5	11.672	14.869	210.007	149.059	3.758	3.166	42.001	37.265	281.156	58.687	9.00	4.50	344548

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
100	80	±0.80	4.75	12.259	15.616	219.428	155.757	3.748	3.158	43.886	38.939	294.473	61.237	9.50	4.75	343690

			5.0	12.840	16.356	228.669	162.342	3.739	3.150	45.734	40.586	307.546	63.719	10.00	5.00	342831
120	50	±0.90	2.5	6.350	8.089	144.140	36.875	4.221	2.135	24.023	14.750	96.026	26.006	5.00	2.50	331415
			3.0	7.542	9.608	168.936	43.047	4.193	2.117	28.156	17.219	112.872	30.317	6.00	3.00	329699
120	60	±0.90	2.5	6.742	8.589	161.400	55.326	4.335	2.538	26.900	18.442	132.568	31.745	5.00	2.50	351415
			2.75	7.381	9.403	175.600	60.099	4.322	2.528	29.267	20.033	144.567	34.479	5.50	2.75	350557
			3.0	8.013	10.208	189.474	64.757	4.308	2.519	31.579	21.586	156.336	37.138	6.00	3.00	349699
			3.5	9.259	11.795	216.271	73.751	4.282	2.501	36.045	24.584	179.186	42.236	7.00	3.50	347982
			3.75	9.872	12.575	229.212	78.102	4.269	2.492	38.202	26.034	190.268	44.677	7.50	3.75	347123
			4.0	10.478	13.348	241.860	82.367	4.257	2.484	40.310	27.456	201.120	47.048	8.00	4.00	346265
			4.5	11.672	14.869	266.312	90.669	4.232	2.469	44.385	30.223	222.136	51.582	9.00	4.50	344548
			4.75	12.259	15.616	278.137	94.724	4.220	2.463	46.356	31.575	232.299	53.747	9.50	4.75	343690

			5.0	12.840	16.356	289.708	98.728	4.209	2.457	48.285	32.909	242.233	55.846	10.00	5.00	342.831
			5.5	13.982	17.811	312.134	106.623	4.186	2.447	52.022	35.541	261.411	59.849	11.00	5.50	341.114
			5.75	14.543	18.526	323.012	110.535	4.176	2.443	53.835	36.845	270.656	61.754	11.50	5.75	340.256
			6.0	15.098	19.233	333.682	114.438	4.165	2.439	55.614	38.146	279.671	63.597	12.00	6.00	339.398
120	80	±0.90	2.5	7.527	9.589	195.921	105.360	4.520	3.315	32.654	26.340	215.821	43.234	5.00	2.50	391.415
			2.75	8.245	10.503	213.413	114.674	4.508	3.304	35.569	28.668	235.793	47.059	5.50	2.75	390.557
			3.0	8.955	11.408	230.55	123.789	4.495	3.294	38.425	30.947	255.471	50.799	6.00	3.00	389.699
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
1	8	±0.80	4.	12.25	15.	219.	155.	3.	3.	43.	38.	294.4	61.23	9.50	4.75	343

00	0		75	9	616	428	757	748	158	886	939	73	7			690
			5.0	12.840	16.356	228.669	162.342	3.739	3.150	45.734	40.586	307.546	63.719	10.00	5.00	342831
120	50	±0.90	2.5	6.350	8.089	144.140	36.875	4.221	2.135	24.023	14.750	96.026	26.006	5.00	2.50	331415
			3.0	7.542	9.608	168.936	43.047	4.193	2.117	28.156	17.219	112.872	30.317	6.00	3.00	329699
120	60	±0.90	2.5	6.742	8.589	161.400	55.326	4.335	2.538	26.900	18.442	132.568	31.745	5.00	2.50	351415
			2.75	7.381	9.403	175.600	60.099	4.322	2.528	29.267	20.033	144.567	34.479	5.50	2.75	350557
			3.0	8.013	10.208	189.474	64.757	4.308	2.519	31.579	21.586	156.336	37.138	6.00	3.00	349699
			3.5	9.259	11.795	216.271	73.751	4.282	2.501	36.045	24.584	179.186	42.236	7.00	3.50	347982
			3.75	9.872	12.575	229.212	78.102	4.269	2.492	38.202	26.034	190.268	44.677	7.50	3.75	347123
			4.0	10.478	13.348	241.860	82.367	4.257	2.484	40.310	27.456	201.120	47.048	8.00	4.00	346265
			4.5	11.672	14.869	266.312	90.669	4.232	2.469	44.385	30.223	222.136	51.582	9.00	4.50	344548

			4.75	12.259	15.616	278.137	94.724	4.220	2.463	46.356	31.575	232.299	53.747	9.50	4.75	343690
			5.0	12.840	16.356	289.708	98.728	4.209	2.457	48.285	32.909	242.233	55.846	10.00	5.00	342831
			5.5	13.982	17.811	312.134	106.623	4.186	2.447	52.022	35.541	261.411	59.849	11.00	5.50	341114
			5.75	14.543	18.526	323.012	110.535	4.176	2.443	53.835	36.845	270.656	61.754	11.50	5.75	340256
			6.0	15.098	19.233	333.682	114.438	4.165	2.439	55.614	38.146	279.671	63.597	12.00	6.00	339398
120	80	±0.90	2.5	7.527	9.589	195.921	105.360	4.520	3.315	32.654	26.340	215.821	43.234	5.00	2.50	391415
			2.75	8.245	10.503	213.413	114.674	4.508	3.304	35.569	28.668	235.793	47.059	5.50	2.75	390557
			3.0	8.955	11.408	230.55	123.789	4.495	3.294	38.425	30.947	255.471	50.799	6.00	3.00	389699

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理	截面面积	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半	公称内圆弧半	每米长度

				论重量 kg/m	cm^2									径 mm	径 mm	的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
120		±0.90	3.5	10.358	13.195	263.788	141.453	4.471	3.274	43.965	35.363	293.944	58.027	7.00	3.50	387982
			3.75	11.049	14.075	279.907	150.017	4.459	3.265	46.651	37.504	312.738	61.518	7.50	3.75	387123
			4.0	11.734	14.948	295.705	158.414	4.448	3.255	49.284	39.603	331.236	64.927	8.00	4.00	386265
			4.5	13.085	16.669	326.374	174.741	4.425	3.238	54.396	43.685	367.345	71.505	9.00	4.50	384548
	80		4.75	13.750	17.516	341.265	182.690	4.414	3.229	56.877	45.672	384.954	74.677	9.50	4.75	383690
			5.0	14.410	18.356	355.875	190.509	4.403	3.222	59.312	47.627	402.267	77.772	10.00	5.00	382831
			5.5	15.709	20.011	384.296	205.800	4.382	3.207	64.049	51.450	435.999	83.734	11.00	5.50	381114
			5.75	16.348	20.826	398.130	213.294	4.372	3.200	66.355	53.323	452.418	86.603	11.50	5.75	380256
			6.	16.98	21.	411.	220.	4.	3.	68.	55.	468.5	89.39	12.0	6.00	379

			0	2	633	730	701	363	194	622	175	38	9	0		398
140	80	±1.00	3.5	11.457	14.595	383.637	161.950	5.127	3.331	54.805	40.487	365.034	68.268	7.00	3.50	427982
			3.75	12.227	15.575	407.399	171.837	5.114	3.322	58.200	42.959	388.490	72.418	7.50	3.75	427123
			4.0	12.990	16.548	430.720	181.539	5.102	3.312	61.531	45.385	411.597	76.478	8.00	4.00	426265
			4.5	14.498	18.469	476.077	200.422	5.077	3.294	68.011	50.106	456.757	84.33	9.00	4.50	424548
			4.75	15.242	19.416	498.135	209.623	5.065	3.286	71.162	52.406	478.811	88.125	9.50	4.75	423690
			5.0	15.980	20.356	519.793	218.676	5.053	3.278	74.256	54.669	500.513	91.834	10.00	5.00	422831
			5.5	17.436	22.211	561.959	236.382	5.030	3.262	80.280	59.095	542.863	98.998	11.00	5.50	421114
			5.75	18.154	23.126	582.490	245.057	5.019	3.255	83.213	61.264	563.510	102.454	11.50	5.75	420256
			6.0	18.866	24.033	602.671	253.629	5.008	3.249	86.096	63.407	583.805	105.829	12.00	6.00	419398
150	50	±1.10	4.0	11.734	14.948	382.510	67.282	5.059	2.122	51.001	26.913	192.141	48.303	8.00	4.00	386265

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Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
120		±0.90	3.5	10.358	13.195	263.788	141.453	4.471	3.274	43.965	35.363	293.944	58.027	7.00	3.50	387982
			3.75	11.049	14.075	279.907	150.017	4.459	3.265	46.651	37.504	312.738	61.518	7.50	3.75	387123
			4.0	11.734	14.948	295.705	158.414	4.448	3.255	49.284	39.603	331.236	64.927	8.00	4.00	386265
			4.5	13.085	16.669	326.374	174.741	4.425	3.238	54.396	43.685	367.345	71.505	9.00	4.50	384548
	80		4.75	13.750	17.516	341.265	182.690	4.414	3.229	56.877	45.672	384.954	74.677	9.50	4.75	383690
			5.0	14.410	18.356	355.875	190.509	4.403	3.222	59.312	47.627	402.267	77.772	10.00	5.00	382831
			5.5	15.709	20.011	384.296	205.800	4.382	3.207	64.049	51.450	435.999	83.734	11.00	5.50	381114
			5.	16.34	20.	398.	213.	4.	3.	66.	53.	452.4	86.60	11.5	5.75	380

			75	8	826	130	294	372	200	355	323	18	3	0		256
			6.0	16.982	21.633	411.730	220.701	4.363	3.194	68.622	55.175	468.538	89.399	12.00	6.00	379398
140	80	±1.00	3.5	11.457	14.595	383.637	161.950	5.127	3.331	54.805	40.487	365.034	68.268	7.00	3.50	427982
			3.75	12.227	15.575	407.399	171.837	5.114	3.322	58.200	42.959	388.490	72.418	7.50	3.75	427123
			4.0	12.990	16.548	430.720	181.539	5.102	3.312	61.531	45.385	411.597	76.478	8.00	4.00	426265
			4.5	14.498	18.469	476.077	200.422	5.077	3.294	68.011	50.106	456.757	84.33	9.00	4.50	424548
			4.75	15.242	19.416	498.135	209.623	5.065	3.286	71.162	52.406	478.811	88.125	9.50	4.75	423690
			5.0	15.980	20.356	519.793	218.676	5.053	3.278	74.256	54.669	500.513	91.834	10.00	5.00	422831
			5.5	17.436	22.211	561.959	236.382	5.030	3.262	80.280	59.095	542.863	98.998	11.00	5.50	421114
			5.75	18.154	23.126	582.490	245.057	5.019	3.255	83.213	61.264	563.510	102.454	11.50	5.75	420256
			6.0	18.866	24.033	602.671	253.629	5.008	3.249	86.096	63.407	583.805	105.829	12.00	6.00	419398

150	50	±1.10	4.0	11.734	14.948	382.510	67.282	5.059	2.122	51.001	26.913	192.141	48.303	8.00	4.00	386265

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

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边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
150	50	±1.10	5.0	14.410	18.356	459.019	80.605	5.001	2.096	61.203	32.242	230.051	57.108	10.00	5.00	382831
			6.0	16.982	21.633	529.134	93.563	4.946	2.080	70.551	37.425	263.988	64.765	12.00	6.00	379398
			8.0	21.385	27.242	645.028	140.607	4.866	2.272	86.004	56.243	315.882	75.684	20.00	12.00	365663
150	100	±1.20	3.5	13.105	16.695	529.464	284.454	5.632	4.128	70.595	56.891	585.333	93.387	7.00	3.50	487982
			3.	13.99	17.	562.	302.	5.	4.	75.0	60.4	623.	99.2	7.50	3.75	487

			75	3	825	865	219	619	118	49	44	709	18			123
			4.0	14.874	18.948	595.723	319.685	5.607	4.108	79.430	63.937	661.626	104.943	8.00	4.00	486265
			4.5	16.617	21.169	659.852	353.757	5.583	4.088	87.980	70.751	736.076	116.081	9.00	4.50	484548
			4.75	17.479	22.266	691.143	370.384	5.571	4.079	92.152	74.077	772.610	121.496	9.50	4.75	483690
			5.0	18.335	23.356	721.936	386.752	5.560	4.069	96.258	77.350	808.682	126.810	10.00	5.00	482831
			5.5	20.026	25.511	782.070	418.756	5.537	4.052	104.276	83.751	879.438	137.139	11.00	5.50	481114
			5.75	20.862	26.576	811.437	434.416	5.526	4.043	108.192	86.883	914.121	142.155	11.50	5.75	480256
			6.0	21.692	27.633	840.354	449.863	5.515	4.035	112.047	89.973	948.341	147.075	12.00	6.00	479398
			7.5	26.155	33.319	995.337	544.189	5.466	4.041	132.712	108.838	1145.415	173.620	18.75	11.25	467809
			7.75	26.914	34.285	1022.106	560.162	5.460	4.042	136.281	112.032	1175.920	177.783	19.38	11.63	466736
			8.0	27.665	35.242	1048.734	576.258	5.455	4.044	139.831	115.252	1205.888	181.849	20.00	12.00	465663

160	60	±1.20	3.0	9.897	12.608	390.212	84.269	5.563	2.585	48.777	28.090	228.155	50.140	6.00	3.0	429699
			4.5	14.498	18.469	553.876	118.452	5.476	2.533	69.234	39.484	324.955	70.085	9.00	4.50	424548
160	80	+1.20	3.5	12.556	15.995	532.675	182.447	5.771	3.377	66.584	45.612	438.032	78.510	7.00	3.50	467982
			3.75	13.404	17.075	566.041	193.658	5.758	3.368	70.755	48.414	466.269	83.321	7.50	3.75	467123
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
150	50	±1.10	5.0	14.410	18.356	459.019	80.605	5.001	2.096	61.203	32.242	230.051	57.108	10.00	5.00	382831
			6.0	16.982	21.633	529.134	93.563	4.946	2.080	70.551	37.425	263.988	64.765	12.00	6.00	379398
			8.0	21.385	27.242	645.028	140.607	4.866	2.272	86.004	56.243	315.882	75.684	20.00	12.00	365663
1	1	±1.20	3.	13.10	16.	529.	284.	5.	4.	70.5	56.8	585.	93.3	7.00	3.50	487

50	00		5	5	695	464	454	632	128	95	91	333	87			982
			3.75	13.993	17.825	562.865	302.219	5.619	4.118	75.049	60.444	623.709	99.218	7.50	3.75	487123
			4.0	14.874	18.948	595.723	319.685	5.607	4.108	79.430	63.937	661.626	104.943	8.00	4.00	486265
			4.5	16.617	21.169	659.852	353.757	5.583	4.088	87.980	70.751	736.076	116.081	9.00	4.50	484548
			4.75	17.479	22.266	691.143	370.384	5.571	4.079	92.152	74.077	772.610	121.496	9.50	4.75	483690
			5.0	18.335	23.356	721.936	386.752	5.560	4.069	96.258	77.350	808.682	126.810	10.00	5.00	482831
			5.5	20.026	25.511	782.070	418.756	5.537	4.052	104.276	83.751	879.438	137.139	11.00	5.50	481114
			5.75	20.862	26.576	811.437	434.416	5.526	4.043	108.192	86.883	914.121	142.155	11.50	5.75	480256
			6.0	21.692	27.633	840.354	449.863	5.515	4.035	112.047	89.973	948.341	147.075	12.00	6.00	479398
			7.5	26.155	33.319	995.337	544.189	5.466	4.041	132.712	108.838	1145.415	173.620	18.75	11.25	467809
			7.75	26.914	34.285	1022.106	560.162	5.460	4.042	136.281	112.032	1175.920	177.783	19.38	11.63	466736

			8.0	27.665	35.242	1048.734	576.258	5.455	4.044	139.831	115.252	1205.888	181.849	20.00	12.00	465663
160	60	±1.20	3.0	9.897	12.608	390.212	84.269	5.563	2.585	48.777	28.090	228.155	50.140	6.00	3.0	429699
			4.5	14.498	18.469	553.876	118.452	5.476	2.533	69.234	39.484	324.955	70.085	9.00	4.50	424548
160	80	+1.20	3.5	12.556	15.995	532.675	182.447	5.771	3.377	66.584	45.612	438.032	78.510	7.00	3.50	467982
			3.75	13.404	17.075	566.041	193.658	5.758	3.368	70.755	48.414	466.269	83.321	7.50	3.75	467123

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
160	80	±1.20	4.0	14.246	18.148	598.830	204.664	5.744	3.358	74.854	51.166	494.098	88.031	8.00	4.00	466265

			4.5	15.911	20.269	662.717	226.104	5.718	3.340	82.840	56.526	548.534	97.159	9.00	4.50	464548
			4.75	16.733	21.316	693.837	236.556	5.705	3.331	86.730	59.139	575.141	101.578	9.50	4.75	463690
			5.0	17.550	22.356	724.423	246.842	5.692	3.323	90.553	61.711	601.340	105.901	10.00	5.00	462831
			5.5	19.163	24.411	784.043	266.964	5.667	3.307	98.005	66.741	652.515	114.268	11.00	5.50	461114
			5.75	19.959	25.426	813.102	276.821	5.655	3.300	101.638	69.205	677.491	118.313	11.50	5.75	460256
			6.0	20.750	26.433	841.677	286.557	5.643	3.293	105.210	71.639	702.058	122.268	12.00	6.00	459398
			7.5	24.978	31.819	990.139	352.938	5.578	3.330	123.767	88.234	840.434	143.147	18.75	11.25	447809
			7.75	25.697	32.735	1016.077	364.135	5.571	3.335	127.010	91.034	861.620	146.389	19.38	11.63	446736
			8.0	26.409	33.642	1041.832	375.555	5.565	3.341	130.229	93.889	882.333	149.540	20.00	12.00	445663
180	65	±1.20	3.0	11.075	14.108	550.705	112.130	6.248	2.819	61.189	34.502	306.749	61.849	6.00	3.00	479699
			4.5	16.264	20.719	785.921	158.263	6.159	2.764	87.325	48.696	438.906	86.993	9.00	4.50	474548

180	100	±1.30	4.0	16.758	21.348	927.162	375.013	6.590	4.191	103.018	75.003	853.848	127.059	8.00	4.00	546265
			5.0	20.690	26.356	1126.933	454.502	6.539	4.153	125.215	90.900	1044.788	153.883	10.00	5.00	542831
			6.0	24.518	31.233	1315.278	529.495	6.489	4.117	146.142	105.899	1226.684	178.884	12.00	6.00	539398
			8.0	31.433	40.042	1639.099	678.082	6.398	4.115	182.122	135.616	1565.242	222.491	20.00	12.00	525663
180	160	±1.60	4.0	20.526	26.148	1298.938	1085.657	7.048	6.444	144.326	135.707	1842.330	209.576	8.00	4.00	666265
			5.0	25.400	32.356	1586.433	1325.257	7.002	6.400	176.270	165.657	2268.564	255.805	10.00	5.00	662831
			6.0	30.170	38.433	1860.462	1553.517	6.958	6.358	206.718	194.190	2680.958	299.720	12.00	6.00	659398
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer radius mm	Nominal inner radius mm	Surface area per meter mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
160	80	±1.20	4.0	14.246	18.148	598.830	204.664	5.744	3.358	74.854	51.166	494.098	88.031	8.00	4.00	466265

			4.5	15.911	20.269	662.717	226.104	5.718	3.340	82.840	56.526	548.534	97.159	9.00	4.50	464548
			4.75	16.733	21.316	693.837	236.556	5.705	3.331	86.730	59.139	575.141	101.578	9.50	4.75	463690
			5.0	17.550	22.356	724.423	246.842	5.692	3.323	90.553	61.711	601.340	105.901	10.00	5.00	462831
			5.5	19.163	24.411	784.043	266.964	5.667	3.307	98.005	66.741	652.515	114.268	11.00	5.50	461114
			5.75	19.959	25.426	813.102	276.821	5.655	3.300	101.638	69.205	677.491	118.313	11.50	5.75	460256
			6.0	20.750	26.433	841.677	286.557	5.643	3.293	105.210	71.639	702.058	122.268	12.00	6.00	459398
			7.5	24.978	31.819	990.139	352.938	5.578	3.330	123.767	88.234	840.434	143.147	18.75	11.25	447809
			7.75	25.697	32.735	1016.077	364.135	5.571	3.335	127.010	91.034	861.620	146.389	19.38	11.63	446736
			8.0	26.409	33.642	1041.832	375.555	5.565	3.341	130.229	93.889	882.333	149.540	20.00	12.00	445663
180	65	±1.20	3.0	11.075	14.108	550.705	112.130	6.248	2.819	61.189	34.502	306.749	61.849	6.00	3.00	479699
			4.5	16.264	20.719	785.921	158.263	6.159	2.764	87.325	48.696	438.906	86.993	9.00	4.50	474548

180	100	±1.30	4.0	16.758	21.348	927.162	375.013	6.590	4.191	103.018	75.003	853.848	127.059	8.00	4.00	546265
			5.0	20.690	26.356	1126.933	454.502	6.539	4.153	125.215	90.900	1044.788	153.883	10.00	5.00	542831
			6.0	24.518	31.233	1315.278	529.495	6.489	4.117	146.142	105.899	1226.684	178.884	12.00	6.00	539398
			8.0	31.433	40.042	1639.099	678.082	6.398	4.115	182.122	135.616	1565.242	222.491	20.00	12.00	525663
180	160	±1.60	4.0	20.526	26.148	1298.938	1085.657	7.048	6.444	144.326	135.707	1842.330	209.576	8.00	4.00	666265
			5.0	25.400	32.356	1586.433	1325.257	7.002	6.400	176.270	165.657	2268.564	255.805	10.00	5.00	662831
			6.0	30.170	38.433	1860.462	1553.517	6.958	6.358	206.718	194.190	2680.958	299.720	12.00	6.00	659398

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

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边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径	公称内圆弧半径	每米长度的表面

				kg/m										mm	mm	积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
180	160	±1.60	8.0	38.969	49.642	2349.627	1966.845	6.880	6.294	261.070	245.856	3476.353	379.701	20.00	12.00	645663
200	100	±1.30	3.5	15.853	20.195	1064.674	365.972	7.261	4.257	106.467	73.194	871.102	125.979	7.00	3.50	587982
			3.75	16.937	21.575	1133.224	389.113	7.247	4.247	113.322	77.823	928.557	133.957	7.50	3.75	587123
			4.0	18.014	22.948	1200.825	411.898	7.234	4.237	120.083	82.380	985.377	141.806	8.00	4.00	586265
			4.5	20.150	25.669	1333.231	456.436	7.207	4.217	133.323	91.287	1097.108	157.122	9.00	4.500	584548
			4.75	21.208	27.016	1398.059	478.210	7.194	4.207	139.806	95.642	1152.019	164.591	9.50	4.75	583690
			5.0	22.260	28.356	1461.988	499.669	7.180	4.198	146.199	99.934	1206.294	171.936	10.00	5.00	582831
			5.5	24.344	31.011	1587.201	541.686	7.154	4.179	158.720	108.337	1312.933	186.258	11.00	5.50	581114
			5.75	25.376	32.326	1648.511	562.268	7.141	4.171	164.851	112.454	1365.298	193.238	11.50	5.75	580256

			6.0	26.402	33.633	1708.977	582.583	7.128	4.162	170.898	116.517	1417.026	200.098	12.00	6.00	579398
			7.5	32.043	40.819	2023.749	704.970	7.041	4.156	202.375	140.994	1717.655	237.821	18.75	11.25	567809
			7.75	32.998	42.035	2077.886	725.432	7.031	4.154	207.789	145.086	1764.545	243.770	19.38	11.63	566736
			8.0	33.945	43.242	2131.448	745.965	7.021	4.153	213.145	149.193	1810.724	249.601	20.00	12.00	565663
			10.0	41.265	52.570	2444.400	564.400	6.820	3.280	244.440	112.880	2154.130	292.070	25.00	15.00	557079
200	120	±1.40	4.0	19.270	24.548	1354.510	618.777	7.428	5.021	135.451	103.129	1345.346	172.493	8.00	4.00	626265
			5.0	23.830	30.356	1652.155	752.875	7.377	4.980	165.216	125.479	1652.003	209.875	10.00	5.00	622831
			6.0	28.286	36.033	1934.865	880.018	7.328	4.942	193.486	146.670	1946.735	245.116	12.00	6.00	619398
			8.0	36.457	46.442	2426.531	1119.574	7.228	4.910	242.653	186.596	2507.038	308.267	20.00	12.00	605663
			10.0	44.405	56.570	2805.730	1045.730	7.040	4.300	280.570	174.290	3007.030	363.090	25.00	15.00	597079
Side length mm		Dimensional	Wall	Theoretical	Sectional area	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional	Torsional	Nominal	Nominal	Surface area

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		tolerance mm	thickness mm	weight per unit length kg/m	cm^2							constant cm^4	modulus cm^3	outer arc radius mm	inner arc radius mm	per meter length mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
180	160	±1.60	8.0	38.969	49.642	2349.627	1966.845	6.880	6.294	261.070	245.856	3476.353	379.701	20.00	12.00	645663
200	100	±1.30	3.5	15.853	20.195	1064.674	365.972	7.261	4.257	106.467	73.194	871.102	125.979	7.00	3.50	587982
			3.75	16.937	21.575	1133.224	389.113	7.247	4.247	113.322	77.823	928.557	133.957	7.50	3.75	587123
			4.0	18.014	22.948	1200.825	411.898	7.234	4.237	120.083	82.380	985.377	141.806	8.00	4.00	586265
			4.5	20.150	25.669	1333.231	456.436	7.207	4.217	133.323	91.287	1097.108	157.122	9.00	4.500	584548
			4.75	21.208	27.016	1398.059	478.210	7.194	4.207	139.806	95.642	1152.019	164.591	9.50	4.75	583690
			5.0	22.260	28.356	1461.988	499.669	7.180	4.198	146.199	99.934	1206.294	171.936	10.00	5.00	582831
			5.5	24.344	31.011	1587.201	541.686	7.154	4.179	158.720	108.337	1312.933	186.258	11.00	5.50	581114
			5.	25.37	32.3	1	562.	7.	4.	164.	112.	1365	193.	11.5	5.75	580

			75	6	26	648.511	268	141	171	851	454	.298	238	0		256
			6.0	26.402	33.633	1708.977	582.583	7.128	4.162	170.898	116.517	1 417.026	200.098	12.00	6.00	579 398
			7.5	32.043	40.819	2023.749	704.970	7.041	4.156	202.375	140.994	1717.655	237.821	18.75	11.25	567 809
			7.75	32.998	42.035	2077.886	725.432	7.031	4.154	207.789	145.086	1764.545	243.770	19.38	11.63	566 736
			8.0	33.945	43.242	2131.448	745.965	7.021	4.153	213.145	149.193	1810.724	249.601	20.00	12.00	565 663
			10.0	41.265	52.570	2 444.400	564.400	6.820	3.280	244.440	112.880	2 154.130	292.070	25.00	15.00	557 079
200	120	±1.40	4.0	19.270	24.548	1 354.510	618.777	7.428	5.021	135.451	103.129	1 345.346	172.493	8.00	4.00	626 265
			5.0	23.830	30.356	1 652.155	752.875	7.377	4.980	165.216	125.479	1 652.003	209.875	10.00	5.00	622 831
			6.0	28.286	36.033	1 934.865	880.018	7.328	4.942	193.486	146.670	1 946.735	245.116	12.00	6.00	619 398
			8.0	36.457	46.442	2426.531	1 119.574	7.228	4.910	242.653	186.596	2507.038	308.267	20.00	12.00	605 663
			10.0	44.405	56.570	2805.730	1 045.730	7.040	4.300	280.570	174.290	3007.030	363.090	25.00	15.00	597 079

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
200	150	±1.50	3.5	18.600	23.695	1402.567	905.125	7.694	6.181	140.257	120.683	1711.905	193.489	7.00	3.50	687982
			3.75	19.880	25.325	1494.337	963.998	7.682	6.170	149.434	128.533	1827.418	206.097	7.50	3.75	687123
			4.0	21.154	26.948	1585.038	1022.150	7.669	6.159	158.504	136.287	1942.025	218.549	8.00	4.00	686265
			4.5	23.682	30.169	1763.285	1136.334	7.645	6.137	176.328	151.511	2168.520	242.992	9.00	4.50	684548
			4.75	24.937	31.766	1850.854	1192.389	7.633	6.127	185.085	158.985	2280.406	254.986	9.50	4.75	683690
			5.0	26.185	33.356	1937.405	1247.769	7.621	6.116	193.741	166.369	2391.384	266.830	10.00	5.00	682831
			5.5	28.661	36.511	2107.505	1356.554	7.598	6.095	210.751	180.874	2610.610	290.070	11.00	5.50	681114

			5.75	29.890	38.076	2191.082	1409.985	7.586	6.085	219.108	187.998	2718.857	301.470	11.50	5.75	680256
			6.0	31.112	39.633	2273.697	1462.794	7.574	6.075	227.370	195.039	2826.193	312.723	12.00	6.00	679398
			7.5	37.930	48.319	2718.906	1757.525	7.501	6.031	271.891	234.337	3463.854	376.269	18.75	11.25	667809
			7.75	39.081	49.785	2794.375	1806.991	7.492	6.025	279.438	240.932	3564.853	386.429	19.38	11.63	666736
			8.0	40.225	51.242	2869.155	1856.148	7.483	6.019	286.915	247.486	3664.857	396.444	20.00	12.00	665663
			10.0	49.115	62.570	3347.730	1995.230	7.310	5.650	334.770	266.030	4428.410	471.450	25.00	15.00	657079
			12.0	56.567	72.060	3668.460	2083.940	7.140	5.380	366.850	277.860	5099.210	532.080	36.00	24.00	638194
220	140	±1.50	4.0	21.782	27.748	1893.674	948.757	8.261	5.847	172.152	135.537	1987.666	224.330	8.00	4.00	706265
			5.0	26.970	34.356	2316.089	1157.960	8.211	5.806	210.554	165.423	2446.818	273.871	10.00	5.00	702831
			6.0	32.054	40.833	2719.637	1357.327	8.161	5.766	247.240	193.904	2890.795	320.954	12.00	6.00	699398
			8.0	41.481	52.842	3429.727	1725.631	8.056	5.715	311.793	246.519	3745.740	406.852	20.00	12.00	685663

			10.0	50.685	64.570	4017.120	1745.120	7.890	5.200	365.190	249.300	4523.310	483.770	25.00	15.00	677079
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer radius mm	Nominal inner radius mm	Surface area per meter mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
200	150	±1.50	3.5	18.600	23.695	1402.567	905.125	7.694	6.181	140.257	120.683	1711.905	193.489	7.00	3.50	687982
			3.75	19.880	25.325	1494.337	963.998	7.682	6.170	149.434	128.533	1827.418	206.097	7.50	3.75	687123
			4.0	21.154	26.948	1585.038	1022.150	7.669	6.159	158.504	136.287	1942.025	218.549	8.00	4.00	686265
			4.5	23.682	30.169	1763.285	1136.334	7.645	6.137	176.328	151.511	2168.520	242.992	9.00	4.50	684548
			4.75	24.937	31.766	1850.854	1192.389	7.633	6.127	185.085	158.985	2280.406	254.986	9.50	4.75	683690
			5.0	26.185	33.356	1937.405	1247.769	7.621	6.116	193.741	166.369	2391.384	266.830	10.00	5.00	682831
			5.5	28.661	36.511	2107.505	1356.554	7.598	6.095	210.751	180.874	2610.610	290.070	11.00	5.50	681114

			5.75	29.890	38.076	2191.082	1409.985	7.586	6.085	219.108	187.998	2718.857	301.470	11.50	5.75	680256
			6.0	31.112	39.633	2273.697	1462.794	7.574	6.075	227.370	195.039	2826.193	312.723	12.00	6.00	679398
			7.5	37.930	48.319	2718.906	1757.525	7.501	6.031	271.891	234.337	3463.854	376.269	18.75	11.25	667809
			7.75	39.081	49.785	2794.375	1806.991	7.492	6.025	279.438	240.932	3564.853	386.429	19.38	11.63	666736
			8.0	40.225	51.242	2869.155	1856.148	7.483	6.019	286.915	247.486	3664.857	396.444	20.00	12.00	665663
			10.0	49.115	62.570	3347.730	1995.230	7.310	5.650	334.770	266.030	4428.410	471.450	25.00	15.00	657079
			12.0	56.567	72.060	3668.460	2083.940	7.140	5.380	366.850	277.860	5099.210	532.080	36.00	24.00	638194
220	140	±1.50	4.0	21.782	27.748	1893.674	948.757	8.261	5.847	172.152	135.537	1987.666	224.330	8.00	4.00	706265
			5.0	26.970	34.356	2316.089	1157.960	8.211	5.806	210.554	165.423	2446.818	273.871	10.00	5.00	702831
			6.0	32.054	40.833	2719.637	1357.327	8.161	5.766	247.240	193.904	2890.795	320.954	12.00	6.00	699398
			8.0	41.481	52.842	3429.727	1725.631	8.056	5.715	311.793	246.519	3745.740	406.852	20.00	12.00	685663

			10.0	50.685	64.570	4017.120	1745.120	7.890	5.200	365.190	249.300	4523.310	483.770	25.00	15.00	677079

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

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边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
220	140	±1.50	12.0	58.451	74.460	4407.870	1744.960	7.690	4.840	400.720	249.280	5205.520	546.080	36.00	24.00	658194
250	150	±1.60	3.5	21.348	27.195	2384.022	1092.956	9.363	6.340	190.722	145.727	2347.793	243.563	7.00	3.50	787982
			3.75	22.824	29.075	2541.809	1164.565	9.350	6.329	203.345	155.275	2506.816	259.563	7.50	3.75	787123
			4.0	24.294	30.948	2697.989	1235.363	9.337	6.318	215.839	164.715	2664.681	275.384	8.00	4.00	786265

			4.5	27.215	34.669	3005.583	1374.575	9.311	6.297	240.447	183.277	2976.930	306.493	9.00	4.50	784548
			4.75	28.665	36.516	3157.023	1443.012	9.298	6.286	252.562	192.402	3131.314	321.784	9.50	4.75	783690
			5.0	30.110	38.356	3306.910	1510.686	9.285	6.276	264.553	201.425	3284.537	336.900	10.00	5.00	782831
			5.5	32.979	42.011	3602.086	1643.796	9.260	6.255	288.167	219.173	3587.496	366.616	11.00	5.50	781114
			5.75	34.403	43.826	3747.404	1709.260	9.247	6.245	299.792	227.901	3737.231	381.217	11.50	5.75	780256
			6.0	35.822	45.633	3891.231	1774.014	9.234	6.235	311.298	236.535	3885.803	395.648	12.00	6.00	779398
			7.5	43.818	55.819	4665.363	2138.618	9.142	6.190	373.229	285.149	4770.265	477.776	18.75	11.25	767809
			7.75	45.165	57.535	4796.517	2199.433	9.131	6.183	383.721	293.258	4910.979	490.951	19.38	11.63	766736
			8.0	46.505	59.242	4926.399	2259.854	9.119	6.176	394.112	301.314	5050.449	503.958	20.00	12.00	765663
			10.0	56.965	72.570	5825.010	2295.010	8.960	5.620	466.000	306.000	6120.700	602.080	25.00	15.00	757079
			12.0	65.987	84.060	6457.900	2310.860	8.770	5.240	516.630	308.110	7088.460	684.430	36.00	24.00	738194

250	180	±1.60	4.0	26.178	33.348	3061.117	1856.602	9.581	7.461	244.889	206.289	3594.190	333.442	8.00	4.00	846265
			5.0	32.465	41.356	3757.160	2275.683	9.531	7.418	300.573	252.854	4438.399	408.859	10.00	5.00	842831
			6.0	38.648	49.233	4427.163	2678.238	9.483	7.376	354.173	297.582	5260.771	481.260	12.00	6.00	839398
			8.0	50.273	64.042	5629.423	3415.419	9.376	7.303	450.354	379.491	6866.361	616.138	20.00	12.00	825663
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
220	140	±1.50	12.0	58.451	74.460	4407.870	1744.960	7.690	4.840	400.720	249.280	5205.520	546.080	36.00	24.00	658194
250	150	±1.60	3.5	21.348	27.195	2384.022	1092.956	9.363	6.340	190.722	145.727	2347.793	243.563	7.00	3.50	787982
			3.75	22.824	29.075	2541.809	1164.565	9.350	6.329	203.345	155.275	2506.816	259.563	7.50	3.75	787123
			4.0	24.294	30.948	2697.989	1235.363	9.337	6.318	215.839	164.715	2664.681	275.384	8.00	4.00	786265

			4.5	27.215	34.669	3005.583	1374.575	9.311	6.297	240.447	183.277	2976.930	306.493	9.00	4.50	784548
			4.75	28.665	36.516	3157.023	1443.012	9.298	6.286	252.562	192.402	3131.314	321.784	9.50	4.75	783690
			5.0	30.110	38.356	3306.910	1510.686	9.285	6.276	264.553	201.425	3284.537	336.900	10.00	5.00	782831
			5.5	32.979	42.011	3602.086	1643.796	9.260	6.255	288.167	219.173	3587.496	366.616	11.00	5.50	781114
			5.75	34.403	43.826	3747.404	1709.260	9.247	6.245	299.792	227.901	3737.231	381.217	11.50	5.75	780256
			6.0	35.822	45.633	3891.231	1774.014	9.234	6.235	311.298	236.535	3885.803	395.648	12.00	6.00	779398
			7.5	43.818	55.819	4665.363	2138.618	9.142	6.190	373.229	285.149	4770.265	477.776	18.75	11.25	767809
			7.75	45.165	57.535	4796.517	2199.433	9.131	6.183	383.721	293.258	4910.979	490.951	19.38	11.63	766736
			8.0	46.505	59.242	4926.399	2259.854	9.119	6.176	394.112	301.314	5050.449	503.958	20.00	12.00	765663
			10.0	56.965	72.570	5825.010	2295.010	8.960	5.620	466.000	306.000	6120.700	602.080	25.00	15.00	757079
			12.0	65.987	84.060	6457.900	2310.860	8.770	5.240	516.630	308.110	7088.460	684.430	36.00	24.00	738194

250	180	±1.60	4.0	26.178	33.348	3061.117	1856.602	9.581	7.461	244.889	206.289	3594.190	333.442	8.00	4.00	846265
			5.0	32.465	41.356	3757.160	2275.683	9.531	7.418	300.573	252.854	4438.399	408.859	10.00	5.00	842831
			6.0	38.648	49.233	4427.163	2678.238	9.483	7.376	354.173	297.582	5260.771	481.260	12.00	6.00	839398
			8.0	50.273	64.042	5629.423	3415.419	9.376	7.303	450.354	379.491	6866.361	616.138	20.00	12.00	825663

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
250	180	±1.60	10.0	61.675	78.570	6689.510	3774.010	9.230	6.930	535.160	419.330	8359.220	739.840	25.00	15.00	817079
			12.0	71.639	91.260	7478.350	4047.060	9.050	6.660	598.270	449.670	9748.230	846.780	36.00	24.00	798194

250	200	±1.60	4.0	27.434	34.948	3303.203	2353.465	9.722	8.206	264.256	235.347	4253.769	372.154	8.00	4.00	886265
			5.0	34.035	43.356	4057.327	2888.238	9.674	8.162	324.586	288.824	5257.394	456.845	10.00	5.00	882831
			6.0	40.532	51.633	4784.451	3403.137	9.626	8.119	382.756	340.314	6236.972	538.357	12.00	6.00	879398
			8.0	52.785	67.242	6098.106	4344.568	9.523	8.038	487.848	434.457	8155.981	690.975	20.00	12.00	865663
			10.0	64.815	82.570	7265.840	4963.370	9.380	7.750	581.270	496.330	9950.030	831.770	25.00	15.00	857079
			12.0	75.407	96.060	8158.660	5446.140	9.220	7.530	652.690	544.610	11639.550	955.180	36.00	24.00	838194
260	180	±1.80	5.0	33.250	42.356	4124.095	2352.266	9.867	7.452	317.238	261.363	4694.894	425.870	10.00	5.00	862831
			6.0	39.590	50.433	4861.539	2769.102	9.818	7.410	373.965	307.678	5565.693	501.439	12.00	6.00	859398
			8.0	51.529	65.642	6185.816	3533.840	9.707	7.337	475.832	392.649	7266.676	642.426	20.00	12.00	845663
			10.0	63.245	80.566	7462.452	4273.272	9.624	7.283	574.035	474.808	8850.299	771.936	25.00	15.00	837079
			12.0	75.523	93.660	8245.010	4138.260	9.380	6.650	634.260	459.810	10328.330	884.100	36.00	24.00	818194

280	180	±1.70	5.0	34.820	44.356	4922.000	2505.433	10.534	7.516	351.571	278.381	5214.627	459.893	10.00	5.00	902831
			6.0	41.474	52.833	5806.541	2950.830	10.484	7.473	414.753	327.870	6183.514	541.800	12.00	6.00	899398
			8.0	54.041	68.842	7397.865	3770.683	10.366	7.401	528.419	418.965	8077.538	695.009	20.00	12.00	885663
			10.0	66.385	84.566	8931.912	4562.606	10.277	7.345	637.994	506.956	9844.891	836.143	25.00	15.00	877079
			12.0	77.291	98.460	9920.010	4311.370	10.040	6.620	708.570	479.040	11502.910	959.650	36.00	24.00	858194
280	200	±1.80	5.0	36.390	46.356	5300.167	3173.488	10.693	8.274	378.583	317.349	6196.055	513.871	10.00	5.00	942831
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
250	180	±1.60	10.0	61.675	78.570	6689.510	3774.010	9.230	6.930	535.160	419.330	8359.220	739.840	25.00	15.00	817079
			12	71.63	91.2	7478	4	9.0	6.	598	449	9	846.	36.0	24.0	798

			2.0	9	60	.350	047.060	50	660	.270	.670	748.230	780	0	0	194
250	200	±1.60	4.0	27.434	34.948	3303.203	2353.465	9.722	8.206	264.256	235.347	4253.769	372.154	8.00	4.00	886265
			5.0	34.035	43.356	4057.327	2888.238	9.674	8.162	324.586	288.824	5257.394	456.845	10.00	5.00	882831
			6.0	40.532	51.633	4784.451	3403.137	9.626	8.119	382.756	340.314	6236.972	538.357	12.00	6.00	879398
			8.0	52.785	67.242	6098.106	4344.568	9.523	8.038	487.848	434.457	8155.981	690.975	20.00	12.00	865663
			10.0	64.815	82.570	7265.840	4963.370	9.380	7.750	581.270	496.330	9950.030	831.770	25.00	15.00	857079
			12.0	75.407	96.060	8158.660	5446.140	9.220	7.530	652.690	544.610	11639.550	955.180	36.00	24.00	838194
260	180	±1.80	5.0	33.250	42.356	4124.095	2352.266	9.867	7.452	317.238	261.363	4694.894	425.870	10.00	5.00	862831
			6.0	39.590	50.433	4861.539	2769.102	9.818	7.410	373.965	307.678	5565.693	501.439	12.00	6.00	859398
			8.0	51.529	65.642	6185.816	3533.840	9.707	7.337	475.832	392.649	7266.676	642.426	20.00	12.00	845663
			10.0	63.245	80.566	7462.452	4273.272	9.624	7.283	574.035	474.808	8850.299	771.936	25.00	15.00	837079

			12.0	75.523	93.660	8245.010	4138.260	9.380	6.650	634.260	459.810	10328.330	884.100	36.00	24.00	818194
280	180	±1.70	5.0	34.820	44.356	4922.000	2505.433	10.534	7.516	351.571	278.381	5214.627	459.893	10.00	5.00	902831
			6.0	41.474	52.833	5806.541	2950.830	10.484	7.473	414.753	327.870	6183.514	541.800	12.00	6.00	899398
			8.0	54.041	68.842	7397.865	3770.683	10.366	7.401	528.419	418.965	8077.538	695.009	20.00	12.00	885663
			10.0	66.385	84.566	8931.912	4562.606	10.277	7.345	637.994	506.956	9844.891	836.143	25.00	15.00	877079
			12.0	77.291	98.460	9920.010	4311.370	10.040	6.620	708.570	479.040	11502.910	959.650	36.00	24.00	858194
280	200	±1.80	5.0	36.390	46.356	5300.167	3173.488	10.693	8.274	378.583	317.349	6196.055	513.871	10.00	5.00	942831

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m

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H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
280	200	±1.80	6.0	43.358	55.233	6257.069	3741.969	10.644	8.231	446.933	374.197	7354.002	606.083	12.00	6.00	939398
			8.0	56.553	72.042	7989.907	4787.192	10.531	8.152	570.708	478.719	9625.492	779.412	20.00	12.00	925663
			10.0	69.525	88.566	9661.246	5795.535	10.444	8.089	690.089	579.553	11756.677	940.008	25.00	15.00	917079
			12.0	81.059	103.260	10782.470	5838.600	10.220	7.520	770.180	583.860	13779.110	1082.340	36.00	24.00	898194
300	100	±1.70	5.0	30.110	38.356	4067.951	725.502	10.298	4.349	271.197	145.100	2043.796	262.229	10.00	5.00	782831
			6.0	35.822	45.633	4782.457	848.023	10.237	4.311	318.830	169.605	2403.461	306.208	12.00	6.00	779398
			8.0	46.505	59.242	6018.468	1085.378	10.079	4.280	401.231	217.076	3080.344	385.236	20.00	12.00	765663
			10.0	56.965	72.566	7205.172	1323.550	9.964	4.271	480.345	264.710	3681.003	454.513	25.00	15.00	757079
			12.0	65.987	84.060	7808.310	114.230	9.640	1.170	520.550	22.850	4177.460	508.490	36.00	24.00	738194
300	150	±1.70	4.5	30.747	39.169	4681.238	1612.817	10.932	6.417	312.083	215.042	3818.556	370.004	9.00	4.50	884548

			4.75	32.394	41.266	4919.647	1693.635	10.919	6.406	327.976	225.818	4017.118	388.593	9.50	4.75	883690
			5.0	34.035	43.356	5155.867	1773.602	10.905	6.396	343.724	236.48	4214.250	406.985	10.00	5.000	882831
			5.5	37.296	47.511	5621.804	1931.038	10.878	6.375	374.787	257.472	4604.223	443.179	11.00	5.50	881114
			5.75	38.917	49.576	5851.552	2008.534	10.864	6.365	390.103	267.805	4797.063	460.984	11.50	5.75	880256
			6.0	40.532	51.633	6079.177	2085.234	10.851	6.355	405.278	278.031	4988.471	478.596	12.00	6.00	879398
			7.5	49.705	63.319	7309.552	2519.712	10.744	6.308	487.303	335.962	6128.310	579.322	18.75	11.25	867809
			7.75	51.249	65.285	7517.848	2591.875	10.731	6.301	501.190	345.583	6310.203	595.516	19.38	11.63	866736
			8.0	52.785	67.242	7724.175	2663.561	10.718	6.294	514.945	355.141	6490.587	611.520	20.00	12.00	865663
			9.5	61.851	78.791	8922.906	3085.633	10.642	6.258	594.860	411.418	7540.882	703.597	23.75	14.25	859225
Side length mm		Dimensional tolerance mm	Wall thickness	Theoretical weight per unit length	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius	Nominal inner arc radius	Surface area per meter

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			mm	kg/m										mm	mm	length mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
280	200	±1.80	6.0	43.358	55.233	6257.069	3741.969	10.644	8.231	446.933	374.197	7354.002	606.083	12.00	6.00	939398
			8.0	56.553	72.042	7989.907	4787.192	10.531	8.152	570.708	478.719	9625.492	779.412	20.00	12.00	925663
			10.0	69.525	88.566	9661.246	5795.535	10.444	8.089	690.089	579.553	11756.677	940.008	25.00	15.00	917079
			12.0	81.059	103.260	10782.470	5838.600	10.220	7.520	770.180	583.860	13779.110	1082.340	36.00	24.00	898194
300	100	±1.70	5.0	30.110	38.356	4067.951	725.502	10.298	4.349	271.197	145.100	2043.796	262.229	10.00	5.00	782831
			6.0	35.822	45.633	4782.457	848.023	10.237	4.311	318.830	169.605	2403.461	306.208	12.00	6.00	779398
			8.0	46.505	59.242	6018.468	1085.378	10.079	4.280	401.231	217.076	3080.344	385.236	20.00	12.00	765663
			10.0	56.965	72.566	7205.172	1323.550	9.964	4.271	480.345	264.710	3681.003	454.513	25.00	15.00	757079
			12.0	65.987	84.060	7808.310	114.230	9.640	1.170	520.550	22.850	4177.460	508.490	36.00	24.00	738194

300	150	±1.70	4.5	30.747	39.169	4681.238	1612.817	10.932	6.417	312.083	215.042	3818.556	370.004	9.00	4.50	884548
			4.75	32.394	41.266	4919.647	1693.635	10.919	6.406	327.976	225.818	4017.118	388.593	9.50	4.75	883690
			5.0	34.035	43.356	5155.867	1773.602	10.905	6.396	343.724	236.48	4214.250	406.985	10.00	5.00	882831
			5.5	37.296	47.511	5621.804	1931.038	10.878	6.375	374.787	257.472	4604.223	443.179	11.00	5.50	881114
			5.75	38.917	49.576	5851.552	2008.534	10.864	6.365	390.103	267.805	4797.063	460.984	11.50	5.75	880256
			6.0	40.532	51.633	6079.177	2085.234	10.851	6.355	405.278	278.031	4988.471	478.596	12.00	6.00	879398
			7.5	49.705	63.319	7309.552	2519.712	10.744	6.308	487.303	335.962	6128.310	579.322	18.75	11.25	867809
			7.75	51.249	65.285	7517.848	2591.875	10.731	6.301	501.190	345.583	6310.203	595.516	19.38	11.63	866736
			8.0	52.785	67.242	7724.175	2663.561	10.718	6.294	514.945	355.141	6490.587	611.520	20.00	12.00	865663
			9.5	61.851	78.791	8922.906	3085.633	10.642	6.258	594.860	411.418	7540.882	703.597	23.75	14.25	859225

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

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Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
300	150	±1.70	9.75	63.336	80.683	9116.530	3154.990	10.630	6.253	607.769	420.665	7710.541	718.293	24.38	14.63	858152
			10.0	64.815	82.566	9308.505	3224.169	10.618	6.249	620.567	429.889	7878.645	732.806	25.00	15.00	857079
			12.0	75.407	96.060	10298.070	2460.510	10.350	5.060	686.540	328.070	9153.100	836.910	36.00	24.00	838194
300	160	±1.80	5.0	34.820	44.356	5373.451	2046.257	11.007	6.792	358.230	255.782	4707.351	435.958	10.00	5.00	902831
			6.0	41.474	52.833	6338.521	2407.725	10.953	6.751	422.568	300.966	5576.389	513.111	12.00	6.00	899398
			8.0	54.041	68.842	8065.316	3076.861	10.824	6.685	537.688	384.608	7267.811	656.863	20.00	12.00	885663
			10.0	66.385	84.566	9729.172	3724.143	10.726	6.636	648.611	465.518	8837.815	788.628	25.00	15.00	877079

			12.0	77.291	98.460	10796.030	3078.330	10.470	5.590	719.740	384.790	10294.000	902.860	36.00	24.00	858194
300	200	±2.00	4.5	34.280	43.669	5663.666	3053.446	11.388	8.362	377.578	305.345	6185.059	500.884	9.00	4.50	984548
			4.75	36.123	46.016	5954.911	3209.238	11.376	8.351	396.994	320.924	6511.333	526.499	9.50	4.75	983690
			5.0	37.960	48.356	6243.784	3363.655	11.363	8.340	416.252	336.366	6835.776	551.890	10.00	5.00	982831
			5.5	41.614	53.011	6814.483	3668.419	11.338	8.319	454.299	366.842	7479.168	602.005	11.00	5.50	981114
			5.75	43.431	55.326	7096.342	3818.796	11.325	8.308	473.089	381.88	7798.115	626.731	11.50	5.75	980256
			6.0	45.242	57.633	7375.897	3967.857	11.313	8.297	491.726	396.786	8115.228	651.238	12.00	6.00	979398
			7.5	55.593	70.819	8914.083	4804.374	11.219	8.237	594.272	480.437	10017.054	792.786	18.75	11.25	967809
			7.75	57.333	73.035	9173.056	4943.843	11.207	8.227	611.537	494.384	10322.730	815.691	19.38	11.63	966736
			8.0	59.065	75.242	9429.881	5082.275	11.195	8.219	628.659	508.227	10626.501	838.380	20.00	12.00	965663
			9.5	69.309	88.291	10927.888	5893.151	11.125	8.170	728.526	589.315	12408.675	970.006	23.75	14.25	959225

			9.75	70.990	90.433	11 170.776	6 025.373	11.114	8.163	744.718	602.537	12 698.889	991.201	24.38	14.63	958 152
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
300	150	±1.70	9.75	63.336	80.683	9 116.530	3 154.990	10.630	6.253	607.769	420.665	7 710.541	718.293	24.38	14.63	858 152
			10.0	64.815	82.566	9308.505	3 224.169	10.618	6.249	620.567	429.889	7 878.645	732.806	25.00	15.00	857 079
			12.0	75.407	96.060	1029 8.070	2 460.510	10.350	5.060	686.540	328.070	9 153.100	836.910	36.00	24.00	838 194
300	160	±1.80	5.0	34.820	44.356	5373.451	2046 .257	11.007	6.792	358.230	255.782	4 707.351	435.958	10.00	5.00	902 831
			6.0	41.474	52.833	6338.521	2407 .725	10.953	6.751	422.568	300.966	5 576.389	513.111	12.00	6.00	899 398
			8.0	54.041	68.842	8 065.316	3076 .861	10.824	6.685	537.688	384.608	7 267.811	656.863	20.00	12.00	885 663
			1	66.38	84.	9729.	3	10.	6.	648.	465.	8	788.	25.0	15.0	877

			0.0	5	566	172	724.143	726	636	611	518	837.815	628	0	0	079
			12.0	77.291	98.460	10796.030	3078.330	10.470	5.590	719.740	384.790	10294.000	902.860	36.00	24.00	858194
300	200	±2.00	4.5	34.280	43.669	5663.666	3053.446	11.388	8.362	377.578	305.345	6185.059	500.884	9.00	4.50	984548
			4.75	36.123	46.016	5954.911	3209.238	11.376	8.351	396.994	320.924	6511.333	526.499	9.50	4.75	983690
			5.0	37.960	48.356	6243.784	3363.655	11.363	8.340	416.252	336.366	6835.776	551.890	10.00	5.00	982831
			5.5	41.614	53.011	6814.483	3668.419	11.338	8.319	454.299	366.842	7479.168	602.005	11.00	5.50	981114
			5.75	43.431	55.326	7096.342	3818.796	11.325	8.308	473.089	381.88	7798.115	626.731	11.50	5.75	980256
			6.0	45.242	57.633	7375.897	3967.857	11.313	8.297	491.726	396.786	8115.228	651.238	12.00	6.00	979398
			7.5	55.593	70.819	8914.083	4804.374	11.219	8.237	594.272	480.437	10017.054	792.786	18.75	11.25	967809
			7.75	57.333	73.035	9173.056	4943.843	11.207	8.227	611.537	494.384	10322.730	815.691	19.38	11.63	966736
			8.0	59.065	75.242	9429.881	5082.275	11.195	8.219	628.659	508.227	10626.501	838.380	20.00	12.00	965663

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			9.5	69.309	88.291	10 927.888	5893 .151	11.125	8.170	728.526	589.315	12 408.675	970.006	23.75	14.25	959 225
			9.75	70.990	90.433	11 170.776	6 025.373	11.114	8.163	744.718	602.537	12 698.889	991.201	24.38	14.63	958 152

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
300	200	±2.00	10.0	72.665	92.566	11 411.839	6 156.868	11.103	8.156	760.789	615.687	12 987.134	1012.186	25.00	15.00	957 079
			12.0	84.828	108.060	1278 7.830	6 084.790	10.880	7.500	852.520	608.480	15 235.560	1167.140	36.00	24.00	938 194
300	250	±2.20	5.0	41.885	53.356	7331.701	5 558.160	11.722	10.206	488.780	444.653	9 781.565	696.856	10.00	5.00	108 2831
			6.0	49.952	63.633	8672.617	6 570.891	11.674	10.162	578.174	525.671	11 630.487	823.982	12.00	6.00	1 079 398

			8.0	65.345	83.242	11 135.588	8 441.519	11.576	10.070	742.373	675.322	1527 8.866	1 065.467	20.00	12.00	106 5663
			10.0	80.515	102.566	13 515.172	10 246.647	11.479	9.995	901.011	819.732	18 740.054	1 291.995	25.00	15.00	1 057 079
			12.0	94.247	120.060	15 277.590	11 137.070	11.280	9.630	1 018.510	890.970	22 092.950	1498.070	36.00	24.00	1 038 194
350	150	±2.20	5.0	37.960	48.356	7 546.777	203 6.519	12.493	6.490	431.244	271.536	5 169.184	477.077	10.00	5.00	982 831
			6.0	45.242	57.633	8912.534	239 6.454	12.436	6.448	509.288	319.527	6 120.751	561.556	12.00	6.00	979 398
			8.0	59.065	75.242	11 362.481	306 7.268	12.289	6.385	649.285	408.969	7 967.871	719.109	20.00	12.00	965 663
			10.0	72.665	92.566	13 724.943	371 5.003	12.177	6.335	784.282	495.334	9 680.968	863.576	25.00	15.00	957 079
350	180	±2.10	5.0	40.315	51.356	8439.527	3 041.516	12.819	7.696	482.259	337.946	7 090.694	578.987	10.00	5.00	1 042 831
			6.0	48.068	61.233	9 977.666	3 586.878	12.765	7.654	570.152	398.542	8 413.231	683.084	12.00	6.00	1 039 398
			8.0	62.833	80.042	12 766.305	4 599.632	12.629	7.581	729.503	511.070	11 001.509	879.092	20.00	12.00	102 5663
			10.0	77.375	98.566	15 459.443	5 575.272	12.524	7.521	883.397	619.475	13 429.981	1060.948	25.00	15.00	1 017 079

350	200	±2.10	5.0	41.885	53.356	9034.694	3839.072	13.013	8.482	516.268	383.907	8474.749	646.947	10.00	5.00	1082 831
			6.0	49.952	63.633	10687.754	4532.577	12.960	8.440	610.729	453.258	10065.263	764.137	12.00	6.00	1079 398
			8.0	65.345	83.242	13702.188	5819.981	12.830	8.362	782.982	581.998	13189.340	985.823	20.00	12.00	1065 663
			10.0	80.515	102.566	16615.777	7060.202	12.728	8.297	949.473	706.020	16136.603	1192.674	25.00	15.00	1057 079
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
300	200	±2.00	10.0	72.665	92.566	11411.839	6156.868	11.103	8.156	760.789	615.687	12987.134	1012.186	25.00	15.00	957 079
			12.0	84.828	108.060	12787.830	6084.790	10.880	7.500	852.520	608.480	15235.560	1167.140	36.00	24.00	938 194
300	250	±2.20	5.0	41.885	53.356	7331.701	5558.160	11.722	10.206	488.780	444.653	9781.565	696.856	10.00	5.00	1082831
			6.0	49.952	63.633	8672.617	6570.891	11.674	10.162	578.174	525.671	11630.487	823.982	12.00	6.00	1079 398

			8.0	65.345	83.242	11 135.588	8 441.519	11.576	10.070	742.373	675.322	1527 8.866	1 065.467	20.00	12.00	106 5663
			10.0	80.515	102.566	13 515.172	10 246.647	11.479	9.995	901.011	819.732	18 740.054	1 291.995	25.00	15.00	1 057 079
			12.0	94.247	120.060	15 277.590	11 137.070	11.280	9.630	1 018.510	890.970	22 092.950	1498.070	36.00	24.00	1 038 194
350	150	±2.20	5.0	37.960	48.356	7 546.777	203 6.519	12.493	6.490	431.244	271.536	5 169.184	477.077	10.00	5.00	982 831
			6.0	45.242	57.633	8912.534	239 6.454	12.436	6.448	509.288	319.527	6 120.751	561.556	12.00	6.00	979 398
			8.0	59.065	75.242	11 362.481	306 7.268	12.289	6.385	649.285	408.969	7 967.871	719.109	20.00	12.00	965 663
			10.0	72.665	92.566	13 724.943	371 5.003	12.177	6.335	784.282	495.334	9 680.968	863.576	25.00	15.00	957 079
350	180	±2.10	5.0	40.315	51.356	8439.527	3 041.516	12.819	7.696	482.259	337.946	7 090.694	578.987	10.00	5.00	1 042 831
			6.0	48.068	61.233	9 977.666	3 586.878	12.765	7.654	570.152	398.542	8 413.231	683.084	12.00	6.00	1 039 398
			8.0	62.833	80.042	12 766.305	4 599.632	12.629	7.581	729.503	511.070	11 001.509	879.092	20.00	12.00	102 5663
			10.0	77.375	98.566	15 459.443	5 575.272	12.524	7.521	883.397	619.475	13 429.981	1060.948	25.00	15.00	1 017 079

350	200	±2.10	5.0	41.885	53.356	9034.694	3839.072	13.013	8.482	516.268	383.907	8474.749	646.947	10.00	5.00	1082 831
			6.0	49.952	63.633	10687.754	4532.577	12.960	8.440	610.729	453.258	10065.263	764.137	12.00	6.00	1079 398
			8.0	65.345	83.242	13702.188	5819.981	12.830	8.362	782.982	581.998	13189.340	985.823	20.00	12.00	1065 663
			10.0	80.515	102.566	16615.777	7060.202	12.728	8.297	949.473	706.020	16136.603	1192.674	25.00	15.00	1057 079

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
350	220	±2.20	5.0	43.455	55.356	9629.861	4743.339	13.189	9.257	550.278	431.213	9930.819	714.917	10.00	5.00	1122 831
			6.0	51.836	66.033	11397.842	5605.541	13.138	9.214	651.305	509.595	11803.676	845.207	12.00	6.00	1119398

			8.0	67.857	86.442	14 638.071	7 206.815	13.013	9.131	836.461	655.165	15 492.352	1092.596	20.00	12.00	110 5663
			10.0	83.655	106.566	17 772.110	875 0.264	12.914	9.062	1 015.549	795.479	18 987.263	1 324.478	25.00	15.00	1 097 079
350	250	±2.20	4.5	41.345	52.669	9 532.481	5 718.048	13.453	10.420	544.713	457.444	11 057.885	740.281	9.00	4.50	1 184 548
			4.75	43.580	55.516	10 029.223	6 014.389	13.441	10.408	573.098	481.151	11 647.142	778.722	9.50	4.75	118 3690
			5.0	45.810	58.356	10 522.611	630 8.577	13.428	10.397	601.292	504.686	12 233.754	816.888	10.00	5.00	118 2831
			5.5	50.249	64.011	11 499.393	689 0.554	13.403	10.375	657.108	551.244	1339 9.035	892.404	11.00	5.50	118 1 114
			5.75	52.458	66.826	11 982.824	717 8.377	13.391	10.364	684.733	574.270	13 977.703	929.755	11.50	5.75	118 0 256
			6.0	54.662	69.633	12 462.974	746 4.111	13.378	10.353	712.170	597.129	14 553.720	966.838	12.00	6.00	117 9398
			7.5	67.368	85.819	15 144.911	9 077.238	13.284	10.285	865.423	726.179	18 018.210	1182.808	18.75	11.25	116 7809
			7.75	69.500	88.535	15 595.003	934 6.161	13.272	10.274	891.143	747.693	1857 8.615	1 217.943	19.38	11.63	116 6736
			8.0	71.625	91.242	16 041.895	9 613.226	13.260	10.264	916.680	769.058	19 136.324	1 252.811	20.00	12.00	116 5663

			9.5	84.224	107.291	1865 8.245	11 178.728	13.187	10.207	1 066.185	894 .298	22 425.396	1 456.486	23.75	14.25	115 9225
			9.75	86.298	109.933	19 083.860	11 433.873	13.176	10.198	109 0.506	914 .710	22 963.954	1 489.517	24.38	14.63	115 8 152
			10.0	88.365	112.566	19 506.610	11 687.480	13.164	10.190	111 4.663	934 .998	23 499.737	1 522.289	25.00	15.00	115 7079
350	300	±2.30	5.0	49.735	63.356	12 010.527	9 507.534	13.768	12.250	686. 316	633 .836	16 338.844	986. 865	10.00	5.00	128 2831
			6.0	59.372	75.633	14 238.194	11 266.057	13.721	12.205	813. 611	751 .070	1945 6.667	1169 .600	12.00	6.00	127 9398
			8.0	77.905	99.242	1838 1.601	14 547.001	13.610	12.107	105 0.377	969 .800	25 633.369	1519 .936	20.00	12.00	126 5663
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer radius mm	Nominal inner radius mm	Surface area per meter mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
350	220	±2.20	5.0	43.455	55.356	9 629.861	4 743.339	13.189	9.257	550. 278	431 .213	9 930.819	714. 917	10.00	5.00	1 122 831
			6.0	51.836	66.033	1139 7.842	5 605.541	13.138	9.214	651. 305	509 .595	11 803.676	845. 207	12.00	6.00	111 9398

			8.0	67.857	86.442	14 638.071	7 206.815	13.013	9.131	836.461	655.165	15 492.352	1092.596	20.00	12.00	110 5663
			10.0	83.655	106.566	17 772.110	875 0.264	12.914	9.062	1 015.549	795.479	18 987.263	1 324.478	25.00	15.00	1 097 079
350	250	±2.20	4.5	41.345	52.669	9 532.481	5 718.048	13.453	10.420	544.713	457.444	11 057.885	740.281	9.00	4.50	1 184 548
			4.75	43.580	55.516	10 029.223	6 014.389	13.441	10.408	573.098	481.151	11 647.142	778.722	9.50	4.75	118 3690
			5.0	45.810	58.356	10 522.611	630 8.577	13.428	10.397	601.292	504.686	12 233.754	816.888	10.00	5.00	118 2831
			5.5	50.249	64.011	11 499.393	689 0.554	13.403	10.375	657.108	551.244	1339 9.035	892.404	11.00	5.50	118 1 114
			5.75	52.458	66.826	11 982.824	717 8.377	13.391	10.364	684.733	574.270	13 977.703	929.755	11.50	5.75	118 0 256
			6.0	54.662	69.633	12 462.974	746 4.111	13.378	10.353	712.170	597.129	14 553.720	966.838	12.00	6.00	117 9398
			7.5	67.368	85.819	15 144.911	9 077.238	13.284	10.285	865.423	726.179	18 018.210	1182.808	18.75	11.25	116 7809
			7.75	69.500	88.535	15 595.003	934 6.161	13.272	10.274	891.143	747.693	1857 8.615	1 217.943	19.38	11.63	116 6736
			8.0	71.625	91.242	16 041.895	9 613.226	13.260	10.264	916.680	769.058	19 136.324	1 252.811	20.00	12.00	116 5663

			9.5	84.224	107.291	18658.245	11178.728	13.187	10.207	1066.185	894.298	22425.396	1456.486	23.75	14.25	1159225
			9.75	86.298	109.933	19083.860	11433.873	13.176	10.198	1090.506	914.710	22963.954	1489.517	24.38	14.63	1158 152
			10.0	88.365	112.566	19506.610	11687.480	13.164	10.190	1114.663	934.998	23499.737	1522.289	25.00	15.00	1157079
350	300	±2.30	5.0	49.735	63.356	12010.527	9507.534	13.768	12.250	686.316	633.836	16338.844	986.865	10.00	5.00	1282831
			6.0	59.372	75.633	14238.194	11266.057	13.721	12.205	813.611	751.070	19456.667	1169.600	12.00	6.00	1279398
			8.0	77.905	99.242	18381.601	14547.001	13.610	12.107	1050.377	969.800	25633.369	1519.936	20.00	12.00	1265663

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s

350	300	±2.30	10.0	96.215	122.566	2239 7.443	17 721.839	13.518	12.025	127 9.854	118 1.456	31 548.248	185 2.161	25.00	15.00	1 257 079
360	200	±2.20	5.0	42.670	54.356	9670 .910	3 934.155	13.339	8.507	537. 273	393. 416	8808 .343	665. 959	10.00	5.00	110 2831
			6.0	50.894	64.833	11 443.175	4 645.521	13.285	8.465	635. 732	464. 552	10 462.130	786. 718	12.00	6.00	1 099 398
			8.0	66.601	84.842	1467 8.313	5 967.523	13.153	8.387	815. 462	596. 752	13 710.688	101 5.315	20.00	12.00	1 085 663
			10.0	82.085	104.566	17 806.414	7 240.868	13.049	8.321	989. 245	724. 087	16 777.143	122 8.778	25.00	15.00	1 077 079
400	160	±2.40	5.0	42.670	54.356	10 932.223	264 7.090	14.182	6.978	546. 611	330. 886	6889 .836	586. 130	10.00	5.00	1 102 831
			6.0	50.894	64.833	12 932.047	311 9.565	14.123	6.937	646. 602	389. 946	8 166.178	691. 011	12.00	6.00	1 099 398
			8.0	66.601	84.842	16 556.060	4 001.875	13.969	6.868	827. 803	500. 234	10 651.608	887. 990	20.00	12.00	1 085 663
			10.0	82.085	104.566	20 059.128	485 0.809	13.850	6.811	100 2.956	606. 351	12 972.837	107 0.067	25.00	15.00	1 077 079
400	200	±2.40	4.5	41.345	52.669	11 317.420	391 3.553	14.659	8.620	565. 871	391. 355	9 188.593	672. 871	9.00	4.50	1 184 548
			4.75	43.580	55.516	11 906.996	4 114.828	14.645	8.609	595. 350	411. 483	9 674.936	707. 576	9.50	4.75	1 183 690

			5.0	45.810	58.356	12492.556	4314.488	14.631	8.598	624.628	431.449	10158.737	742.010	10.00	5.00	1182831
			5.5	50.249	64.011	13651.706	4709.028	14.604	8.577	682.585	470.903	11118.714	810.065	11.00	5.50	1181 114
			5.75	52.458	66.826	14225.334	4903.938	14.590	8.566	711.267	490.394	11594.890	843.689	11.50	5.75	1180 256
			6.0	54.662	69.633	14795.023	5097.297	14.576	8.556	739.751	509.730	12068.522	877.047	12.00	6.00	1179398
			7.5	67.368	85.819	17955.034	6194.687	14.464	8.496	897.752	619.469	14906.917	1070.706	18.75	11.25	1167809
			7.75	69.500	88.535	18487.006	6376.821	14.450	8.487	924.350	637.682	15364.866	1102.130	19.38	11.63	1166736
			8.0	71.625	91.242	19015.025	6557.688	14.436	8.478	950.751	655.769	15820.216	1133.292	20.00	12.00	1165663
			9.5	84.224	107.291	22102.399	7618.367	14.353	8.427	1105.120	761.837	18497.286	1314.777	23.75	14.25	1159225
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m

H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
350	300	±2.30	10.0	96.215	122.566	22397.443	17721.839	13.518	12.025	1279.854	1181.456	31548.248	1852.161	25.00	15.00	1 257 079
360	200	±2.20	5.0	42.670	54.356	9670.910	3934.155	13.339	8.507	537.273	393.416	8808.343	665.959	10.00	5.00	110 2831
			6.0	50.894	64.833	11443.175	4645.521	13.285	8.465	635.732	464.552	10462.130	786.718	12.00	6.00	1 099 398
			8.0	66.601	84.842	14678.313	5967.523	13.153	8.387	815.462	596.752	13710.688	1015.315	20.00	12.00	1 085 663
			10.0	82.085	104.566	17806.414	7240.868	13.049	8.321	989.245	724.087	16777.143	1228.778	25.00	15.00	1 077 079
400	160	±2.40	5.0	42.670	54.356	10932.223	2647.090	14.182	6.978	546.611	330.886	6889.836	586.130	10.00	5.00	1 102 831
			6.0	50.894	64.833	12932.047	3119.565	14.123	6.937	646.602	389.946	8166.178	691.011	12.00	6.00	1 099 398
			8.0	66.601	84.842	16556.060	4001.875	13.969	6.868	827.803	500.234	10651.608	887.990	20.00	12.00	1 085 663
			10.0	82.085	104.566	20059.128	4850.809	13.850	6.811	1002.956	606.351	12972.837	1070.067	25.00	15.00	1 077 079
400	200	±2.40	4.5	41.345	52.669	11317.420	3913.553	14.659	8.620	565.871	391.355	9188.593	672.871	9.00	4.50	1 184 548

			4.75	43.580	55.516	11 906.996	4 114.828	14.645	8.609	595.350	411.483	9 674.936	707.576	9.50	4.75	1 183 690
			5.0	45.810	58.356	12 492.556	431 4.488	14.631	8.598	624.628	431.449	10 158.737	742.010	10.00	5.00	118 2831
			5.5	50.249	64.011	13 651.706	4 709.028	14.604	8.577	682.585	470.903	11 118.714	810.065	11.00	5.50	1 181 114
			5.75	52.458	66.826	1422 5.334	4 903.938	14.590	8.566	711.267	490.394	11 594.890	843.689	11.50	5.75	118 0 256
			6.0	54.662	69.633	14 795.023	5 097.297	14.576	8.556	739.751	509.730	12 068.522	877.047	12.00	6.00	117 9398
			7.5	67.368	85.819	17 955.034	6 194.687	14.464	8.496	897.752	619.469	14 906.917	107 0.706	18.75	11.25	116 7809
			7.75	69.500	88.535	1848 7.006	6 376.821	14.450	8.487	924.350	637.682	1536 4.866	110 2.130	19.38	11.63	116 6736
			8.0	71.625	91.242	19 015.025	6 557.688	14.436	8.478	950.751	655.769	15 820.216	113 3.292	20.00	12.00	116 5663
			9.5	84.224	107.291	22 102.399	7 618.367	14.353	8.427	110 5.120	761.837	18 497.286	1 314.777	23.75	14.25	115 9225

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

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边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
400	200	±2.40	9.75	86.298	109.933	22603.903	7791.427	14.339	8.419	1130.195	779.143	18934.218	1344.120	24.38	14.63	1158 152
			10.0	88.365	112.566	23101.794	7963.535	14.326	8.411	1155.090	796.353	19368.487	1373.208	25.00	15.00	1157079
			11.5	99.722	127.034	25709.101	9018.705	14.226	8.426	1285.455	901.871	21958.045	1537.620	34.50	23.00	1140769
			11.75	101.698	129.552	26176.632	9194.369	14.215	8.424	1308.832	919.437	22371.570	1564.618	35.25	23.50	1139482
			12.0	103.667	132.059	26641.433	9370.275	14.203	8.423	1332.072	937.027	22782.095	1591.354	36.00	24.00	1138 194
400	250	±2.60	5.0	49.735	63.356	14442.973	7058.993	15.098	10.555	722.149	564.719	14772.671	936.928	10.00	5.00	1282831
			6.0	59.372	75.633	17123.743	8357.331	15.047	10.512	856.187	668.586	17580.027	1109.709	12.00	6.00	1279398
			8.0	77.905	99.242	22088.732	10784.933	14.919	10.425	1104.437	862.795	23127.493	1440.188	20.00	12.00	1265663

			10.0	96.215	122.566	26 905.128	13 128.314	14.816	10.349	1 345.256	105 0.265	28 423.193	175 2.643	25.00	15.00	1 257 079
			12.0	113.087	144.059	31 159.193	1535 4.709	14.707	10.324	1 557.960	122 8.377	33 596.612	204 1.652	36.00	24.00	1 238 194
400	300	±2.50	4.5	48.410	61.669	14 837.028	9 593.381	15.511	12.473	741.851	639.559	17 932.447	1 024.681	9.00	4.50	1 384 548
			4.75	51.038	65.016	15 617.460	10 095.965	15.499	12.461	780.873	673.064	18 894.501	1 078.446	9.50	4.75	138 3690
			5.0	53.660	68.356	16 393.389	10 595.451	15.486	12.450	819.669	706.363	19 852.947	1 131.888	10.00	5.00	1 382 831
			5.5	58.884	75.011	17 931.816	11 585.202	15.461	12.428	896.591	772.347	21 759.010	1 237.805	11.00	5.50	1 381 114
			5.75	61.486	78.326	1869 4.351	12 075.502	15.449	12.417	934.718	805.033	22 706.625	129 0.283	11.50	5.75	138 0 256
			6.0	64.082	81.633	1945 2.463	12 562.777	15.437	12.405	972.623	837.518	23 650.627	1 342.442	12.00	6.00	137 9398
			7.5	79.143	100.819	2373 2.846	15 332.208	15.343	12.332	118 6.642	1 022.147	29 335.295	1 647.830	18.75	11.25	136 7809
			7.75	81.668	104.035	24 449.859	1579 3.887	15.330	12.321	122 2.493	105 2.926	30 258.901	1 697.694	19.38	11.63	136 6736
			8.0	84.185	107.242	25 162.439	16 252.708	15.318	12.311	125 8.122	108 3.514	31 178.887	1 747.242	20.00	12.00	136 5663

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Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
400	200	±2.40	9.75	86.298	109.933	22603.903	7791.427	14.339	8.419	1130.195	779.143	18934.218	1344.120	24.38	14.63	115 8 152
			10.0	88.365	112.566	23101.794	7963.535	14.326	8.411	1155.090	796.353	19368.487	1373.208	25.00	15.00	115 7079
			11.5	99.722	127.034	25709.101	9018.705	14.226	8.426	1285.455	901.871	21958.045	1537.620	34.50	23.00	114 0769
			11.75	101.698	129.552	26176.632	9194.369	14.215	8.424	1308.832	919.437	22371.570	1564.618	35.25	23.50	113 9482
			12.0	103.667	132.059	26641.433	9370.275	14.203	8.423	1332.072	937.027	22782.095	1591.354	36.00	24.00	1 138 194
400	250	±2.60	5.0	49.735	63.356	14442.973	7058.993	15.098	10.555	722.149	564.719	14772.671	936.928	10.00	5.00	128 2831
			6.0	59.372	75.633	17123.743	8357.331	15.047	10.512	856.187	668.586	17580.027	1109.709	12.00	6.00	127 9398
			8.	77.90	99.	22	10	14.	10.	1	862.	23	1	20.0	12.0	126

			0	5	242	088.732	784.933	919	425	104.437	795	127.493	440.188	0	0	5663
			10.0	96.215	122.566	26 905.128	13 128.314	14.816	10.349	1 345.256	105 0.265	28 423.193	175 2.643	25.00	15.00	1 257 079
			12.0	113.087	144.059	31 159.193	1535 4.709	14.707	10.324	1 557.960	122 8.377	33 596.612	204 1.652	36.00	24.00	1 238 194
400	300	±2.50	4.5	48.410	61.669	14 837.028	9 593.381	15.511	12.473	741.851	639.559	17 932.447	1 024.681	9.00	4.50	1 384 548
			4.75	51.038	65.016	15 617.460	10 095.965	15.499	12.461	780.873	673.064	18 894.501	1 078.446	9.50	4.75	138 3690
			5.0	53.660	68.356	16 393.389	10 595.451	15.486	12.450	819.669	706.363	19 852.947	1 131.888	10.00	5.00	1 382 831
			5.5	58.884	75.011	17 931.816	11 585.202	15.461	12.428	896.591	772.347	21 759.010	1 237.805	11.00	5.50	1 381 114
			5.75	61.486	78.326	1869 4.351	12 075.502	15.449	12.417	934.718	805.033	22 706.625	129 0.283	11.50	5.75	138 0 256
			6.0	64.082	81.633	1945 2.463	12 562.777	15.437	12.405	972.623	837.518	23 650.627	1 342.442	12.00	6.00	137 9398
			7.5	79.143	100.819	2373 2.846	15 332.208	15.343	12.332	118 6.642	1 022.147	29 335.295	1 647.830	18.75	11.25	136 7809
			7.75	81.668	104.035	24 449.859	1579 3.887	15.330	12.321	122 2.493	105 2.926	30 258.901	1 697.694	19.38	11.63	136 6736

			8.0	84.185	107.242	25 162.439	16 252.708	15.318	12.311	125 8.122	108 3.514	31 178.887	1 747.242	20.00	12.00	136 5663

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
400	300	±2.50	9.5	99.139	126.291	29347.115	18947.820	15.244	12.249	1467.356	1263.188	36622.117	2037.957	23.75	14.25	1359225
			9.75	101.605	129.433	30029.832	19387.759	15.232	12.239	1501.492	1292.517	37516.434	2085.323	24.38	14.63	1 358 152
			10.0	104.065	132.566	30708.461	19825.172	15.220	12.229	1535.423	1321.678	38407.038	2132.380	25.00	15.00	1 357 079
			11.5	117.777	150.034	34390.240	22294.198	15.140	12.190	1719.512	1486.280	43800.652	2403.551	34.50	23.00	1340769
			11.75	120.146	153.052	35035.197	22717.770	15.130	12.183	1751.760	1514.518	44665.916	2448.157	35.25	23.50	1339482

			12.0	122.507	156.059	35 676.953	23 139.887	15.120	12.177	1783.848	1 542.659	45 527.092	2 492.447	36.00	24.00	133 8 194
400	350	±2.80	5.0	57.585	73.356	18 343.806	14 986.361	15.813	14.293	917.190	856.363	25 304.205	1 326.871	10.00	5.00	1 482 831
			6.0	68.792	87.633	2178 1.183	17 788.634	15.765	14.247	1 089.059	101 6.493	30 165.481	1 575.214	12.00	6.00	147 9398
			8.0	90.465	115.242	28 236.145	23 061.015	15.653	14.146	1 411.807	1 317.772	39 819.429	2 054.388	20.00	12.00	146 5663
			10.0	111.915	142.566	34 511.794	28 179.110	15.559	14.059	1725.590	1 610.235	49 124.504	2512.288	25.00	15.00	1 457 079
			12.0	131.927	168.059	40 194.713	32 875.808	15.465	13.986	2009.736	1878.618	58 334.485	2943.525	36.00	24.00	1 438 194
450	250	±2.80	6.0	64.082	81.633	22 729.923	9 250.551	16.687	10.645	1010.219	740.044	20 686.681	1 252.590	12.00	6.00	137 9398
			8.0	84.185	107.242	29 376.100	11 956.639	16.551	10.559	1305.604	956.531	27 222.452	1 627.585	20.00	12.00	136 5663
			10.0	104.065	132.566	35 835.725	14 569.147	16.441	10.483	1592.699	1 165.532	33 473.360	1 983.038	25.00	15.00	135 7079
			12.0	122.507	156.059	41 529.601	17 055.469	16.313	10.454	1845.760	1 364.438	39590.937	2 313.553	36.00	24.00	1 338 194
450	350	±2.70	6.0	73.502	93.633	28 644.363	19 563.854	17.491	14.455	1273.083	1 117.935	35855.630	1778.047	12.00	6.00	1 579 398

			8.0	96.745	123.242	37 191.514	25 400.721	17.372	14.356	1 652.956	1 451.470	47 353.695	232 1.670	20.00	12.00	156 5663
			10.0	119.765	152.566	45 517.392	31 069.943	17.273	14.271	2 022.995	1 775.425	5845 8.337	284 2.457	25.00	15.00	1 557 079
			12.0	141.347	180.059	53 043.121	3630 4.568	17.164	14.199	235 7.472	207 4.547	6946 7.907	333 5.040	36.00	24.00	1 538 194
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer radius mm	Nominal inner radius mm	Surface area per meter mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
400	300	±2.50	9.5	99.139	126.291	2934 7.115	1894 7.820	15.244	12.249	146 7.356	126 3.188	3662 2.117	203 7.957	23.75	14.25	135 9225
			9.75	101.605	129.433	30 029.832	1938 7.759	15.232	12.239	150 1.492	1 292.517	3751 6.434	208 5.323	24.38	14.63	1 358 152
			10.0	104.065	132.566	30 708.461	1982 5.172	15.220	12.229	153 5.423	1 321.678	3840 7.038	213 2.380	25.00	15.00	1 357 079
			11.5	117.777	150.034	34 390.240	22 294.198	15.140	12.190	171 9.512	1 486.280	4380 0.652	240 3.551	34.50	23.00	134 0769
			11.75	120.146	153.052	3503 5.197	22 717.770	15.130	12.183	1 751.760	1 514.518	4466 5.916	244 8.157	35.25	23.50	133 9482

			12.0	122.507	156.059	35 676.953	23 139.887	15.120	12.177	1783.848	1 542.659	45 527.092	2 492.447	36.00	24.00	133 8 194
400	350	±2.80	5.0	57.585	73.356	18 343.806	14 986.361	15.813	14.293	917.190	856.363	25 304.205	1 326.871	10.00	5.00	1 482 831
			6.0	68.792	87.633	2178 1.183	17 788.634	15.765	14.247	1 089.059	101 6.493	30 165.481	1 575.214	12.00	6.00	147 9398
			8.0	90.465	115.242	28 236.145	23 061.015	15.653	14.146	1 411.807	1 317.772	39 819.429	2 054.388	20.00	12.00	146 5663
			10.0	111.915	142.566	34 511.794	28 179.110	15.559	14.059	1725.590	1 610.235	49 124.504	2512.288	25.00	15.00	1 457 079
			12.0	131.927	168.059	40 194.713	32 875.808	15.465	13.986	2009.736	1878.618	58 334.485	2943.525	36.00	24.00	1 438 194
450	250	±2.80	6.0	64.082	81.633	22 729.923	9 250.551	16.687	10.645	1010.219	740.044	20 686.681	1 252.590	12.00	6.00	137 9398
			8.0	84.185	107.242	29 376.100	11 956.639	16.551	10.559	1305.604	956.531	27 222.452	1 627.585	20.00	12.00	136 5663
			10.0	104.065	132.566	35 835.725	14 569.147	16.441	10.483	1592.699	1 165.532	33 473.360	1 983.038	25.00	15.00	135 7079
			12.0	122.507	156.059	41 529.601	17 055.469	16.313	10.454	1845.760	1 364.438	39590.937	2 313.553	36.00	24.00	1 338 194
450	350	±2.70	6.0	73.502	93.633	28 644.363	19 563.854	17.491	14.455	1273.083	1 117.935	35855.630	1778.047	12.00	6.00	1 579 398

			8.0	96.745	123.242	37 191.514	25 400.721	17.372	14.356	1 652.956	1 451.470	47 353.695	232 1.670	20.00	12.00	156 5663
			10.0	119.765	152.566	45 517.392	31 069.943	17.273	14.271	2 022.995	1 775.425	5845 8.337	284 2.457	25.00	15.00	1 557 079
			12.0	141.347	180.059	53 043.121	3630 4.568	17.164	14.199	235 7.472	207 4.547	6946 7.907	333 5.040	36.00	24.00	1 538 194

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
500	200	±3.10	6.0	64.082	81.633	25 695.795	6 226.737	17.742	8.734	1 027.832	622.674	16 187.769	110 2.888	12.00	6.00	137 9398
			8.0	84.185	107.242	33 162.293	8 033.101	17.585	8.655	1 326.492	803.310	2122 5.171	1 428.272	20.00	12.00	136 5663
			10.0	104.065	132.566	40 420.068	9 770.202	17.462	8.585	1 616.803	977.020	2600 4.902	173 4.355	25.00	15.00	135 7079

			12.0	122.507	156.059	46 704.992	11 493.795	17.300	8.582	1 868.200	114 9.379	30 620.071	201 5.768	36.00	24.00	1 338 194
500	300	±3.20	5.5	67.519	86.011	30 414.339	13 970.561	18.805	12.745	1 216.574	931.371	29 820.325	1 555.794	11.00	5.50	1 581 114
			5.75	70.513	89.826	3171 9.084	14 565.082	18.791	12.734	126 8.763	971.005	31 122.630	162 2.160	11.50	5.75	158 0 256
			6.0	73.502	93.633	33 017.235	15 156.217	18.778	12.723	132 0.689	1 010.414	32 420.305	1 688.158	12.00	6.00	1 579 398
			7.5	90.918	115.819	4038 3.476	18 541.271	18.673	12.653	1 615.339	1 236.085	40 228.853	207 5.564	18.75	11.25	156 7 809
			7.75	93.835	119.535	41 618.006	19 104.303	18.659	12.642	1 664.720	1 273.620	41 500.431	213 8.928	19.38	11.63	156 6736
			8.0	96.745	123.242	42 845.707	19 664.121	18.645	12.632	171 3.828	131 0.941	42 767.404	2 201.929	20.00	12.000	156 5663
			9.5	114.054	145.291	50 070.933	22 957.786	18.564	12.570	200 2.837	153 0.519	50 271.871	257 2.346	23.75	14.25	1 559 225
			9.75	116.913	148.933	51 252.067	23 496.250	18.551	12.560	205 0.083	1 566.417	51 506.274	263 2.828	24.38	14.63	1 558 152
			10.0	119.765	152.566	5242 6.735	24 031.839	18.537	12.551	209 7.069	1 602.123	5273 5.976	269 2.954	25.00	15.00	1 557 079
			11.5	135.832	173.034	5877 6.360	27 082.587	18.430	12.511	235 1.054	180 5.506	60 188.333	3 041.552	34.50	23.00	1 540 769

			11.75	138.593	176.552	59 889.342	27 601.897	18.418	12.504	2395.574	1840.126	6138 7.281	3098.896	35.25	23.50	1 539 482
			12.0	141.347	180.059	60 996.512	28 119.407	18.405	12.497	2439.860	1874.627	62 581.153	3155.877	36.00	24.00	1 538 194
500	350	±3.60	8.0	109.305	139.242	59 823.844	30 080.135	20.728	14.698	2175.412	1718.865	63 051.196	2856.297	20.00	12.00	176 5663
			10.0	135.465	172.566	73 374.825	3685 1.610	20.620	14.613	2668.175	2105.806	77 901.183	3502.913	25.00	15.00	175 7 079
			12.0	160.187	204.059	8564 2.167	43 162.088	20.486	14.544	3114.261	2466.405	92 645.645	4 118.259	36.00	24.00	173 8 194
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
500	200	±3.10	6.0	64.082	81.633	25 695.795	6 226.737	17.742	8.734	1 027.832	622.674	16 187.769	1102.888	12.00	6.00	137 9398
			8.0	84.185	107.242	33 162.293	8 033.101	17.585	8.655	1 326.492	803.310	2122 5.171	1 428.272	20.00	12.00	136 5663
			10	104.0	132	40	9	17.	8.5	1	977.	2600	173	25.0	15.0	135

			.0	65	.566	420.068	770.202	462	85	616.803	020	4.902	4.355	0	0	7079
			12 .0	122.5 07	156 .059	46 704.992	11 493.795	17. 300	8.5 82	1 868.200	114 9.379	30 620.071	201 5.768	36.0 0	24.0 0	1 338 194
5 00	3 00	±3.20	5. 5	67.51 9	86. 011	30 414.339	13 970.561	18. 805	12. 745	1 216.574	931. 371	29 820.325	1 555.794	11.0 0	5.50	1 581 114
			5. 75	70.51 3	89. 826	3171 9.084	14 565.082	18. 791	12. 734	126 8.763	971. 005	31 122.630	162 2.160	11.5 0	5.75	158 0 256
			6. 0	73.50 2	93. 633	33 017.235	15 156.217	18. 778	12. 723	132 0.689	1 010.414	32 420.305	1 688.158	12.0 0	6.00	1 579 398
			7. 5	90.91 8	115 .819	4038 3.476	18 541.271	18. 673	12. 653	1 615.339	1 236.085	40 228.853	207 5.564	18.7 5	11.2 5	156 7 809
			7. 75	93.83 5	119 .535	41 618.006	19 104.303	18. 659	12. 642	1 664.720	1 273.620	41 500.431	213 8.928	19.3 8	11.6 3	156 6736
			8. 0	96.74 5	123 .242	42 845.707	19 664.121	18. 645	12. 632	171 3.828	131 0.941	42 767.404	2 201.929	20.0 0	12.0 00	156 5663
			9. 5	114.0 54	145 .291	50 070.933	22 957.786	18. 564	12. 570	200 2.837	153 0.519	50 271.871	257 2.346	23.7 5	14.2 5	1 559 225
			9. 75	116.9 13	148 .933	51 252.067	23 496.250	18. 551	12. 560	205 0.083	1 566.417	51 506.274	263 2.828	24.3 8	14.6 3	1 558 152
			10 .0	119.7 65	152 .566	5242 6.735	24 031.839	18. 537	12. 551	209 7.069	1 602.123	5273 5.976	269 2.954	25.0 0	15.0 0	1 557 079

			11.5	135.832	173.034	5877 6.360	27 082.587	18.430	12.511	235 1.054	180 5.506	60 188.333	3 041.552	34.50	23.00	1 540 769
			11.75	138.593	176.552	59 889.342	27 601.897	18.418	12.504	239 5.574	184 0.126	6138 7.281	309 8.896	35.25	23.50	1 539 482
			12.0	141.347	180.059	60 996.512	28 119.407	18.405	12.497	243 9.860	187 4.627	62 581.153	3 155.877	36.00	24.00	1 538 194
500	350	±3.60	8.0	109.305	139.242	59 823.844	30 080.135	20.728	14.698	217 5.412	171 8.865	63 051.196	285 6.297	20.00	12.00	176 5663
			10.0	135.465	172.566	73 374.825	3685 1.610	20.620	14.613	266 8.175	210 5.806	77 901.183	350 2.913	25.00	15.00	175 7 079
			12.0	160.187	204.059	8564 2.167	43 162.088	20.486	14.544	311 4.261	246 6.405	92 645.645	4 118.259	36.00	24.00	173 8 194

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

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边长 mm	尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性截面模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m

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H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
500	350	±3.60	14.0	185.062	235.748	97996.667	49458.909	20.388	14.484	3563.515	2826.223	106762.190	4710.380	42.00	28.00	1727893
600	400	±4.00	7.5	114.468	145.819	75990.347	41066.284	22.828	16.782	2533.012	2053.314	83338.658	3380.519	18.75	11.25	1967 809
			7.75	118.170	150.535	78355.639	42338.419	22.815	16.771	2611.855	2116.921	86008.668	3485.831	19.38	11.63	1966 736
			8.0	121.865	155.242	80710.512	43604.679	22.801	16.760	2690.35	2180.234	88671.548	3590.678	20.00	12.00	1965 663
			9.5	143.884	183.291	94623.525	51081.262	22.721	16.694	3154.117	2554.063	104498.190	4210.086	23.75	14.25	1959 225
			9.75	147.528	187.933	96906.776	52307.619	22.708	16.683	3230.226	2615.381	107110.710	4311.718	24.38	14.63	1958 152
			10.0	151.165	192.566	99179.994	53528.461	22.695	16.673	3306.000	2676.423	109715.970	4412.893	25.00	15.00	1957 079
			11.5	171.942	219.034	111730.810	60433.657	22.586	16.611	3724.360	3021.683	125560.760	5005.732	34.50	23.00	1940 769
			11.75	175.488	223.552	113903.52	61610.892	22.572	16.601	3796.784	3080.545	128124.330	5103.431	35.25	23.50	1939 482
			12.0	179.027	228.059	116066.57	62783.513	22.560	16.592	3868.885	3139.176	130680.300	5200.669	36.00	24.00	1938 194

			13.5	200.087	254.888	128847.70	69727.897	22.483	16.540	4294.923	3486.395	145854.610	5774.444	40.50	27.00	1930 468
			13.75	203.568	259.323	130946.01	70871.031	22.471	16.532	4364.867	3543.552	148356.430	5868.470	41.25	27.50	1929 181
			14.0	207.042	263.748	133035.51	72010.374	22.459	16.524	4434.517	3600.519	150850.380	5962.040	42.00	28.00	1927 893
			15.5	227.712	290.078	145393.93	78773.167	22.388	16.479	4846.464	3938.658	165646.880	6513.909	46.50	31.00	1920 167
			15.75	231.128	294.431	147425.02	79889.181	22.377	16.472	4914.167	3994.459	168084.790	6604.302	47.25	31.50	1918 880
			16.0	234.536	298.772	149448.25	81002.341	22.365	16.466	4981.608	4050.117	170514.560	6694.243	48.00	32.00	1917 592
700	300	±6.00	12.0	179.027	228.060	139451.60	37685.440	24.728	12.855	3984.331	2512.363	98497.640	4483.173	36.00	24.00	1938 194
			14.0	207.042	263.748	159389.10	42938.780	24.583	12.759	4553.975	2862.585	113370.600	5125.963	42.00	28.00	1927 893
			16.0	234.536	298.772	178405.10	47913.210	24.436	12.664	5097.289	3194.214	127765.300	5740.022	48.00	32.00	1917 592
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length	Cross-sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius	Nominal inner arc radius	Surface area per meter

				kg/m										mm	mm	length mm²/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
500	350	±3.60	14.0	185.062	235.748	97996.667	49458.909	20.388	14.484	3563.515	2826.223	106762.190	4710.380	42.00	28.00	172 7893
600	400	±4.00	7.5	114.468	145.819	75990.347	41066.284	22.828	16.782	2533.012	2053.314	83388.658	3380.519	18.75	11.25	196 7 809
			7.75	118.170	150.535	78355.639	42338.419	22.815	16.771	2611.855	2116.921	86008.668	3485.831	19.38	11.63	196 6 736
			8.0	121.865	155.242	80710.512	43604.679	22.801	16.760	2690.35	2180.234	88671.548	3590.678	20.00	12.00	196 5 663
			9.5	143.884	183.291	94623.525	51081.262	22.721	16.694	3154.117	2554.063	104498.190	4210.086	23.75	14.25	195 9 225
			9.75	147.528	187.933	96906.776	52307.619	22.708	16.683	3230.226	2615.381	107110.710	4311.718	24.38	14.63	195 8 152
			10.0	151.165	192.566	99179.994	53528.461	22.695	16.673	3306.000	2676.423	109715.970	4412.893	25.00	15.00	195 7 079
			11.5	171.942	219.034	111730.810	60433.657	22.586	16.611	3724.360	3021.683	125560.760	5005.732	34.50	23.00	194 0 769
			11.75	175.488	223.552	113903.52	61610.892	22.572	16.601	3796.784	3080.545	128124.330	5103.431	35.25	23.50	1 939 482

			12.0	179.027	228.059	116066.57	62783.513	22.560	16.592	3868.885	3139.176	130680.300	5200.669	36.00	24.00	1938 194
			13.5	200.087	254.888	128847.70	69727.897	22.483	16.540	4294.923	3486.395	145854.610	5774.444	40.50	27.00	1930 468
			13.75	203.568	259.323	130946.01	70871.031	22.471	16.532	4364.867	3543.552	148356.430	5868.470	41.25	27.50	1929 181
			14.0	207.042	263.748	133035.51	72010.374	22.459	16.524	4434.517	3600.519	150850.380	5962.040	42.00	28.00	1927 893
			15.5	227.712	290.078	145393.93	78773.167	22.388	16.479	4846.464	3938.658	165646.880	6513.909	46.50	31.00	1920 167
			15.75	231.128	294.431	147425.02	79889.181	22.377	16.472	4914.167	3994.459	168084.790	6604.302	47.25	31.50	1918 880
			16.0	234.536	298.772	149448.25	81002.341	22.365	16.466	4981.608	4050.117	170514.560	6694.243	48.00	32.00	1917 592
700	300	±6.00	12.0	179.027	228.060	139451.60	37685.440	24.728	12.855	3984.331	2512.363	98497.640	4483.173	36.00	24.00	1938 194
			14.0	207.042	263.748	159389.10	42938.780	24.583	12.759	4553.975	2862.585	113370.600	5125.963	42.00	28.00	1927 893
			16.0	234.536	298.772	178405.10	47913.210	24.436	12.664	5097.289	3194.214	127765.300	5740.022	48.00	32.00	1917 592

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
700	300	±6.00	18.0	261.510	333.134	196508.10	52614.280	24.287	12.567	5614.516	3507.618	141667.900	6325.706	54.00	36.00	1907 291
			20.0	287.963	366.832	213706.50	57047.540	24.137	12.471	6105.901	3803.169	155064.800	6883.342	60.00	40.00	1896990
			24.0	339.307	432.238	245424.10	65132,980	23.829	12.275	7012.117	4342.198	180288.500	7915.694	72.00	48.00	1876388
			30.0	412.417	525.372	286430.60	75392.520	23.349	11.979	8183.732	5026.168	214005.100	9260.998	90.00	60.00	1845486
700	400	±6.00	10.0	166.865	212.566	143455.80	61036.000	25.978	16.945	4098.737	3051.800	135991.000	5173.348	25.00	15.00	2157079
			12.0	197.867	252.060	167855.10	7142 6.030	25.806	16.834	4795.860	3571.302	162019.300	6103.876	36.00	24.00	2138194
			14.0	229.022	291.748	192335.40	8171 6.580	25.676	16.736	5495.297	4085.829	187119.000	7004.940	42.00	28.00	2127893

			16.0	259.656	330.772	215840.40	91563.560	25.545	16.638	6166.869	4578.178	211627.000	7873.813	48.00	32.00	2117592
			18.0	289.770	369.134	238379.00	100973.600	25.412	16.539	6810.827	5048.678	235525.200	8710.824	54.00	36.00	2107291
			20.0	319.363	406.832	259959.90	109953.200	25.278	16.440	7427.425	5497.661	258795.900	9516.281	60.00	40.00	2096 990
			24.0	376.987	480.238	300284.30	126648.100	25.006	16.239	8579.550	6332.403	303383.500	11033.680	72.00	48.00	2076388
			30.0	459.517	585.372	353810.60	148629.10	24.585	15.934	10108.870	7431.457	365117.400	13079.820	90.00	60.00	2045486
700	500	±6.50	16.0	284.776	362.772	253275.70	151752.50	26.423	20.453	7236.449	6070.101	307111.100	10009.770	48.00	32.00	2317592
			18.0	318.030	405.134	280249.80	167789.50	26.301	20.351	8007.138	6711.582	342467.400	11098.970	54.00	36.00	2307291
			20.0	350.763	446.832	306213.20	183200.50	26.178	20.248	8748.948	7328.020	377079.700	12153.300	60.00	40.00	2296990
			24.0	414.667	528.238	355144.40	212175.00	25.929	20.042	10146.980	8487.002	443988.100	14158.520	72.00	48.00	2276388
			30.0	506.617	645.372	421190.60	251134.40	25.547	19.726	12034.020	10045.380	538246.300	16911.500	90.00	60.00	2245486
700	600	±6.50	20.0	382.163	486.832	352466.50	278789.40	26.907	23.930	10070.470	9292.979	506328.900	14792.350	60.00	40.00	2496990

			24.0	452.347	576.238	410004.60	32413.90	26.674	23.716	11714.420	10803.800	597726.500	17286.730	72.00	48.00	2476388
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer radius mm	Nominal inner radius mm	Surface area per meter mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
700	300	±6.00	18.0	261.510	333.134	196508.10	52614.280	24.287	12.567	5614.516	3507.618	141667.900	6325.706	54.00	36.00	1907 291
			20.0	287.963	366.832	213706.50	57047.540	24.137	12.471	6105.901	3803.169	155064.800	6883.342	60.00	40.00	1896990
			24.0	339.307	432.238	245424.10	65132,980	23.829	12.275	7012.117	4342.198	180288.500	7915.694	72.00	48.00	1876388
			30.0	412.417	525.372	286430.60	75392.520	23.349	11.979	8183.732	5026.168	214005.100	9260.998	90.00	60.00	1845486
700	400	±6.00	10.0	166.865	212.566	143455.80	61036.000	25.978	16.945	4098.737	3051.800	135991.000	5173.348	25.00	15.00	2157079
			12.0	197.867	252.060	167855.10	71426.030	25.806	16.834	4795.860	3571.302	162019.300	6103.876	36.00	24.00	2138194
			14.0	229.022	291.748	192335.40	81716.580	25.676	16.736	5495.297	4085.829	187119.000	7004.940	42.00	28.00	2127893

			16.0	259.656	330.772	215840.40	91563.560	25.545	16.638	6166.869	4578.178	211627.000	7873.813	48.00	32.00	2117592
			18.0	289.770	369.134	238379.00	100973.600	25.412	16.539	6810.827	5048.678	235525.200	8710.824	54.00	36.00	2107291
			20.0	319.363	406.832	259959.90	109953.200	25.278	16.440	7427.425	5497.661	258795.900	9516.281	60.00	40.00	2096 990
			24.0	376.987	480.238	300284.30	126648.100	25.006	16.239	8579.550	6332.403	303383.500	11033.680	72.00	48.00	2076388
			30.0	459.517	585.372	353810.60	148629.10	24.585	15.934	10108.870	7431.457	365117.400	13079.820	90.00	60.00	2045486
700	500	±6.50	16.0	284.776	362.772	253275.70	151752.50	26.423	20.453	7236.449	6070.101	307111.100	10009.770	48.00	32.00	2317592
			18.0	318.030	405.134	280249.80	167789.50	26.301	20.351	8007.138	6711.582	342467.400	11098.970	54.00	36.00	2307291
			20.0	350.763	446.832	306213.20	183200.50	26.178	20.248	8748.948	7328.020	377079.700	12153.300	60.00	40.00	2296990
			24.0	414.667	528.238	355144.40	212175.00	25.929	20.042	10146.980	8487.002	443988.100	14158.520	72.00	48.00	2276388
			30.0	506.617	645.372	421190.60	251134.40	25.547	19.726	12034.020	10045.380	538246.300	16911.500	90.00	60.00	2245486
700	600	±6.50	20.0	382.163	486.832	352466.50	278789.40	26.907	23.930	10070.470	9292.979	506328.900	14792.350	60.00	40.00	2496990

			24.0	452.347	576.238	4100 04.60	324 113.90	26.674	23.716	11 714.420	10 803.800	597 726.500	1728 6.730	72.00	48.00	247 6388

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
700	600	±6.50	30.0	553.717	705.372	488 570.60	385 908.20	26.318	23.390	13 959.160	1286 3.610	727 773.600	20 749.500	90.00	60.00	244 5486
800	400	±7.00	20.0	350.763	446.832	362 431.90	124 406.60	28.480	16.686	9060 .799	6 220.328	310 637.700	10 960.580	60.00	40.00	229 6990
			24.0	414.667	528.238	419 974.90	143 636.20	28.197	16.490	10 499.370	7 181.811	364 513.400	1273 0.830	72.00	48.00	227 6388
			30.0	506.617	645.372	497 321.60	169 209.10	27.760	16.192	12 433.040	8460 .457	439 488.700	15 134.870	90.00	60.00	224 5486
			40.0	649.452	827.328	6029 84.90	203 575.40	26.997	15.686	15 074.620	10 178.770	5477 20.800	18 487.710	120 .00	80.00	219 3981

800	500	±5.50	20.0	382.163	486.832	423285.30	206253.80	29.487	20.583	10582.130	8250.153	456077.000	13996.180	60.00	40.00	2496990
			24.0	452.347	576.238	492259.10	239387.20	29.228	20.382	12306.480	9575.488	537545.700	16333.210	72.00	48.00	2476388
			30.0	553.717	705.372	586301.60	284314.40	28.830	20.077	14657.540	11372.580	652836.900	19561.810	90.00	60.00	2445486
			36.0	650.401	828.536	669289.60	323708.10	28.422	19.766	16732.240	12948.320	759316.400	22463.930	108.00	72.00	2414583
			40.0	712.252	907.328	718611.50	347004.80	28.143	19.556	17965.290	13880.190	825124.800	24220.140	120.00	80.00	2393981
800	600	±6.00	20.0	413.563	526.832	484138.60	312442.70	30.314	24.353	12103.470	10414.760	616393.700	17034.140	60.00	40.00	2696990
			24.0	490.027	624.238	564543.30	363950.10	30.073	24.146	14113.580	12131.670	728433.300	19939.580	72.00	48.00	2676388
			30.0	600.817	765.372	675281.60	434688.20	29.703	23.832	16882.040	14489.610	8885 38.400	23996.210	90.00	60.00	2 645 486
			36.0	706.921	900.536	774432.70	497818.20	29.325	23.512	1936 0.820	16593.940	1 038 506.00	2769 6.980	108.00	72.00	2 614 583
			40.0	775.052	987.328	834238.20	5358 00.70	29.068	23.295	20855.960	17860.020	1132 525.00	29969.350	120.00	80.00	2593981
800	700	±7.00	20.0	444.963	566.832	544991.90	444973.20	31.008	28.018	13624.800	12713.520	788438.30	20073.460	60.00	40.00	2896990

			24.0	527.707	672.238	636827.40	5197 24.90	30.779	27.805	15 920.690	14 849.280	933 351.60	23 548.200	72.00	48.00	287 6388
			30.0	647.917	825.372	764 261.60	6233 30.60	30.430	27.481	19 106.540	17 809.450	1 141 718.00	28 434.850	90.00	60.00	284 5486
			36.0	763.441	972.536	879 575.70	716 955.10	30.073	27.151	21 989.390	20 484.430	1 338 629.00	32 937.060	108.00	72.00	281 4583
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
700	600	±6.50	30.0	553.717	705.372	488 570.60	385 908.20	26.318	23.390	13 959.160	1286 3.610	727 773.600	20 749.500	90.00	60.00	244 5486
800	400	±7.00	20.0	350.763	446.832	362 431.90	124 406.60	28.480	16.686	9060.799	6 220.328	310 637.700	10 960.580	60.00	40.00	229 6990
			24.0	414.667	528.238	419 974.90	143 636.20	28.197	16.490	10 499.370	7 181.811	364 513.400	1273 0.830	72.00	48.00	227 6388
			30.0	506.617	645.372	497 321.60	169 209.10	27.760	16.192	12 433.040	8460.457	439 488.700	15 134.870	90.00	60.00	224 5486
			4	649.4	827.	6029	203	26	15	15	10	5477	18	120	80.	219

			0.0	52	328	84.90	575.40	.997	.686	074.620	178.770	20.800	487.710	.00	00	3981
800	500	±5.50	20.0	382.163	486.832	423285.30	206253.80	29.487	20.583	10582.130	8250.153	456077.000	13996.180	60.00	40.00	2496990
			24.0	452.347	576.238	492259.10	239387.20	29.228	20.382	12306.480	9575.488	537545.700	16333.210	72.00	48.00	2476388
			30.0	553.717	705.372	586301.60	284314.40	28.830	20.077	14657.540	11372.580	652836.900	19561.810	90.00	60.00	2445486
			36.0	650.401	828.536	669289.60	323708.10	28.422	19.766	16732.240	12948.320	759316.400	22463.930	108.00	72.00	2414583
			40.0	712.252	907.328	718611.50	347004.80	28.143	19.556	17965.290	13880.190	825124.800	24220.140	120.00	80.00	2393981
800	600	±6.00	20.0	413.563	526.832	484138.60	312442.70	30.314	24.353	12103.470	10414.760	616393.700	17034.140	60.00	40.00	2696990
			24.0	490.027	624.238	564543.30	363950.10	30.073	24.146	14113.580	12131.670	728433.300	19939.580	72.00	48.00	2676388
			30.0	600.817	765.372	675281.60	434688.20	29.703	23.832	16882.040	14489.610	8885 38.400	23996.210	90.00	60.00	2 645 486
			36.0	706.921	900.536	774432.70	497818.20	29.325	23.512	1936 0.820	16593.940	1 038 506.00	2769 6.980	108.00	72.00	2 614 583
			40.0	775.052	987.328	834238.20	5358 00.70	29.068	23.295	20855.960	17860.020	1132 525.00	29969.350	120.00	80.00	2593981

800	700	±7.00	20.0	444.963	566.832	544 991.90	444 973.20	31.008	28.018	13 624.800	12 713.520	788 438.30	20 073.460	60.00	40.00	289 6990
			24.0	527.707	672.238	636 827.40	5197 24.90	30.779	27.805	15 920.690	14 849.280	933 351.60	23 548.200	72.00	48.00	287 6388
			30.0	647.917	825.372	764 261.60	6233 30.60	30.430	27.481	19 106.540	17 809.450	1 141 718.00	28 434.850	90.00	60.00	284 5486
			36.0	763.441	972.536	879 575.70	716 955.10	30.073	27.151	21 989.390	20 484.430	1 338 629.00	32 937.060	108.00	72.00	281 4583

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
800	700	±7.00	40.0	837.852	1067.328	94986 4.90	773 962.90	29.832	26.928	23 746.620	22 113.230	1 463 177.00	3572 7.960	120.00	80.00	279 3981
9	4	±5.50	2	382.1	486.	487	1	31.	16.	1	6	3634	12	60.0	40.0	249

00	00		0.0	63	832	245.600	38 859.9 0	636	889	0 827.6 80	942.994	60.80	405.110	0	0	6990
			2 4.0	452.3 47	576. 238	566 077.60	1 60 624.4 0	31. 343	16. 696	1 2 579.5 00	8 031.219	426 780.00	14 428.360	72.0 0	48.0 0	247 6388
			3 0.0	553.7 17	705. 372	673 101.20	1 89 789.1 0	30. 891	16. 403	1 4 957.8 10	9489. 457	5152 12.20	17 190.600	90.0 0	60.0 0	2 445 486
			3 6.0	650.4 01	828. 536	766 921.00	2 14 951.8 0	30. 424	16. 107	1 7 042.6 90	10 747.590	595 366.20	19 632.480	108. 00	72.0 0	241 4583
			4 0.0	712.2 52	907. 328	822 279.90	2 29 602.0 0	30. 104	15. 908	1 8 272.8 90	11 480.100	6439 77.40	21 085.750	120. 00	80.0 0	239 3981
9 00	5 00	±6.50	2 0.0	413.5 63	526. 832	564 699.00	2 29 307.2 0	32. 740	20. 863	1 2 548.8 70	9 172.287	537 081.20	15 839.360	60.0 0	40.0 0	269 6990
			2	452.0	575.	61223	2	32.	20.	1	9	5857	17	66.0	44.0	268

			2.0	55	867	2.20	48 295.1 0	606	765	3 605.1 60	931.803	69.50	194.020	0	0	6689
			2 4.0	490.0 27	624. 238	658 185.70	2 66 599.4 0	32. 471	20. 666	1 4 626.3 50	10 663.980	633 454.90	18 508.420	72.0 0	48.0 0	267 6388
			2 6.0	527.4 78	671. 946	702 570.80	2 84 228.4 0	32. 335	20. 567	1 5 612.6 90	11 369.140	680 114.90	19 782.870	78.0 0	52.0 0	266 6088
			2 8.0	564.4 08	718. 991	745 398.90	3 01 190.6 0	32. 198	20. 467	1 6 564.4 20	12 047.630	725 727.30	21 017.650	84.0 0	56.0 0	265 5787
			3 0.0	600.8 17	765. 372	786 681.20	3 17 494.4 0	32. 060	20. 367	1 7 481.8 10	1269 9.780	770 269.90	22 213.040	90.0 0	60.0 0	2 645 486
			3 2.0	636.7 06	811. 090	826 429.30	3 33 148.1 0	31. 920	20. 267	1 8 365.1 00	13 325.920	8137 20.60	23 369.290	96.0 0	64.0 0	2 635 185
			3	672.0	856.	864	3	31.	20.	1	13	8560	24	102.	68.0	2

			4.0	73	144	654.40	48 160.2 0	780	166	9 214.5 40	926.410	57.50	486.640	00	0	624 884
			3 6.0	706.9 21	900. 536	901 368.10	3 62 539.1 0	31. 637	20. 064	2 0 030.4 00	14 501.570	897 259.10	25 565.350	108. 00	72.0 0	2 614 583
			3 8.0	741.2 47	944. 264	936 581.60	3 76 293.4 0	31. 494	19. 963	2 0 812.9 30	15 051.740	9373 03.60	26 605.620	114. 00	76.0 0	260 4282
			4 0.0	775.0 52	987. 328	970 306.60	3 89 431.5 0	31. 349	19. 860	2 1 562.3 70	15 577.260	976 169.90	27 607.660	120. 00	80.0 0	259 3981
			4 2.0	808.3 37	1029 .729	10025 54.00	4 01 961.9 0	31. 203	19. 757	2 2 278.9 90	16 078.470	1 013837.00	28 571.690	126. 00	84.0 0	258 3680
			4 4.0	841.1 02	1 071.467	1 033 336.00	4 13 893.0 0	31. 055	19. 654	2 2 963.0 30	16 555.720	1 050 284.00	29 497.890	132. 00	88.0 0	257 3379
Side		Dimen	W	Theor	Secti	Moment of		Radius of		Elastic		Torsi	Torsi	No	No	Surf

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length mm		sional tolerance mm	all thickness mm	etical weight per unit length kg/m	onal area cm^2	inertia cm^4		gyration cm		section modulus cm^3		onal constant cm^4	onal modulus cm^3	minal outer arc radius mm	minal inner arc radius mm	ace area per meter length mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
800	700	±7.00	40.0	837.852	1067.328	94986 4.90	773 962.90	29.832	26.928	23 746.620	22 113.230	1 463 177.00	3572 7.960	120.00	80.00	279 3981
900	400	±5.50	20.0	382.163	486.832	487 245.600	138 859.90	31.636	16.889	10 827.680	6 942.994	3634 60.80	12 405.110	60.00	40.00	249 6990
			24.0	452.347	576.238	566 077.60	160 624.40	31.343	16.696	12 579.500	8 031.219	426 780.00	14 428.360	72.00	48.00	247 6388
			30.0	553.717	705.372	673 101.20	189 789.10	30.891	16.403	14 957.810	9489.457	5152 12.20	17 190.600	90.00	60.00	2 445 486
			36.0	650.401	828.536	766 921.00	214 951.8	30.424	16.107	17 042.6	10 747.590	595 366.20	19 632.480	108.00	72.00	241 4583

							0			90						
			40.0	712.252	907.328	822279.90	229602.00	30.104	15.908	18272.890	11480.100	643977.40	2185085.750	120.00	80.00	2393981
900	500	±6.50	20.0	413.563	526.832	564699.00	229307.20	32.740	20.863	12548.870	9172.287	537081.20	15839.360	60.00	40.00	2696990
			22.0	452.055	575.867	612232.20	248295.10	32.606	20.765	13605.160	9931.803	585769.50	17194.020	66.00	44.00	2686689
			24.0	490.027	624.238	658185.70	266599.40	32.471	20.666	14626.350	10663.980	633454.90	18508.420	72.00	48.00	2676388
			26.0	527.478	671.946	702570.80	284228.40	32.335	20.567	15612.690	11369.140	680114.90	19782.870	78.00	52.00	2666088
			28.0	564.408	718.991	745398.90	301190.6	32.198	20.467	16564.4	12047.630	725727.30	21017.650	84.00	56.00	2655787

							0			20						
			30.0	600.817	765.372	786681.20	317494.40	32.060	20.367	17481.810	12699.780	770269.90	22213.040	90.00	60.00	2645 486
			32.0	636.706	811.090	826429.30	333148.10	31.920	20.267	18365.100	13325.920	813720.60	23369.290	96.00	64.00	2635 185
			34.0	672.073	856.144	864654.40	348160.20	31.780	20.166	19214.540	13926.410	856057.50	24486.640	102.00	68.00	2624 884
			36.0	706.921	900.536	901368.10	362539.10	31.637	20.064	20030.400	14501.570	897259.10	25565.350	108.00	72.00	2614 583
			38.0	741.247	944.264	936581.60	376293.40	31.494	19.963	20812.930	15051.740	937303.60	26605.620	114.00	76.00	2604282
			40.0	775.052	987.328	970306.60	389431.5	31.349	19.860	21562.3	15577.260	976169.90	27607.660	120.00	80.00	2593981

							0			70						
			42.0	808.337	1029.729	10025 54.00	401 961.90	31.203	19.757	22 278.990	16 078.470	1 013837.00	28 571.690	126.00	84.00	258 3680
			44.0	841.102	1 071.467	1 033 336.00	413 893.00	31.055	19.654	22 963.030	16 555.720	1 050 284.00	29 497.890	132.00	88.00	257 3379

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
900	500	±6.50	46.0	873.345	1 112.541	10626 64.00	425 233.60	30.906	19.550	23 614.760	17 009.340	1 085 490.00	3038 6.430	138.00	92.00	256 3078

			48.0	905.068	1152.952	1090550.00	435992.00	30.755	19.446	24234.430	17439.680	1 119436.00	31237.510	144.00	96.00	2552777
			50.0	936.270	1192.700	1 117004.00	446176.90	30.603	19.341	24822.300	17847.080	1 152101.00	32051.280	150.00	100.00	2542477
900	600	±6.00	20.0	444.963	566.832	642152.30	346096.00	33.658	24.710	14270.050	11536.540	729923.20	1927 6.330	60.00	40.00	2896990
			22.0	486.595	619.867	697047.20	375404.30	33.534	24.609	15489.940	12513.480	797152.10	20956.500	66.00	44.00	2886689
			24.0	527.707	672.238	75029 3.90	403786.30	33.408	24.508	16673.200	13459.540	86322 9.80	22593.070	72.00	48.00	2876388
			26.0	568.298	723.946	801904.00	431251.20	33.282	24.407	17820.090	14375.040	928130.50	24186.340	78.00	52.00	2866088

			28.0	608.368	774.991	851889.20	457808.70	33.155	24.305	18 930.870	15 260.290	991 828.50	25 736.600	84.00	56.00	285 5787
			30.0	647.917	825.372	900 261.20	483 468.20	33.026	24.202	20 005.810	16 115.610	1 054 298.00	27 244.120	90.00	60.00	284 5486
			32.0	686.946	875.090	947031.80	508 239.10	32.897	24.099	21 045.150	16 941.300	1 115 514.00	28 709.140	96.00	64.00	2 835 185
			34.0	725.453	924.144	992 212.50	532 130.90	32.767	23.996	22 049.170	17 737.700	1 175 449.00	30 131.930	102.00	68.00	282 4884
			36.0	763.441	972.536	1 035 815.00	555 153.20	32.635	23.892	23 018.110	18 505.110	1 234 080.00	31 512.700	108.00	72.00	281 4583
			38.0	800.907	1020.264	1 077 851.00	577 315.50	32.503	23.788	23 952.260	19 243.850	1 291 381.00	32 851.680	114.00	76.00	280 4282

			40.0	837.852	1067.328	11183 33.00	5986 27.30	32.370	23.683	24 851.850	19 954.240	1 347 325.00	34 149.080	120.00	80.00	279 3981
			42.0	874.277	1 113.729	11572 72.00	619 098.20	32.235	23.577	25 717.160	20 636.610	1 401 890.00	35 405.110	126.00	84.00	278 3680
			44.0	910.182	1 159.467	11946 80.00	638 737.80	32.099	23.471	26 548.450	21 291.260	1 455 049.00	36 619.950	132.00	88.00	277 3379
			46.0	945.565	1 204.541	1 230 569.00	657 555.60	31.963	23.364	27 345.980	21 918.520	15067 78.00	37 793.770	138.00	92.00	276 3078
			48.0	980.428	1248.952	1264 951.00	675 561.20	31.825	23.257	28 110.020	22 518.710	1 557 052.00	38 926.770	144.00	96.00	275 2777
			50.0	1 014.770	1292.700	1 297 837.00	692 764.40	31.686	23.15	28 840.820	23 092.150	1605 848.00	4001 9.090	150.00	100.00	274 2477

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Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer radius mm	Nominal inner radius mm	Surface area per meter mm^2/m
H	B_1	$\pm\Delta$	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
900	500	±6.50	46.0	873.345	1112.541	1062664.00	425233.60	30.906	19.550	23614.760	17009.340	1 085490.00	30386.430	138.00	92.00	2563078
			48.0	905.068	1152.952	1090550.00	435992.00	30.755	19.446	24234.430	17439.680	1 119436.00	31237.510	144.00	96.00	2552777
			50.0	936.270	1192.700	1 117004.00	446176.90	30.603	19.341	24822.300	17847.080	1 152101.00	32051.280	150.00	100.00	2542477
900	600	±6.00	20.0	444.963	566.832	642152.30	346096.00	33.658	24.710	14270.050	11536.540	729923.20	19276.330	60.00	40.00	2896990
			22.0	486.595	619.867	697047.20	375404.30	33.534	24.609	15	12	797152.10	20956.500	66.00	44.00	2886689

											489.940	513.480				
			24.0	527.707	672.238	75029 3.90	403 786.30	33.408	24.508	16 673.200	13 459.540	86322 9.80	22 593.070	72.00	48.00	287 6388
			26.0	568.298	723.946	801 904.00	431 251.20	33.282	24.407	17 820.090	14 375.040	928 130.50	24 186.340	78.00	52.00	286 6088
			28.0	608.368	774.991	851 889.20	4578 08.70	33.155	24.305	18 930.870	15 260.290	991 828.50	25 736.600	84.00	56.00	285 5787
			30.0	647.917	825.372	900 261.20	483 468.20	33.026	24.202	20 005.810	16 115.610	1 054 298.00	27 244.120	90.00	60.00	284 5486
			32.0	686.946	875.090	94703 1.80	508 239.10	32.897	24.099	21 045.150	16 941.300	1 115 514.00	28 709.140	96.00	64.00	2 835 185
			34.0	725.453	924.144	992 212.50	532 130.90	32.767	23.996	22	17	1 175 449.00	30 131.930	102.00	68.00	282 4884

											049.170	737.700				
			36.0	763.441	972.536	1 035 815.00	555 153.20	32.635	23.892	23 018.110	18 505.110	1 234 080.00	31 512.700	108.00	72.00	281 4583
			38.0	800.907	1020.264	1 077 851.00	577 315.50	32.503	23.788	23 952.260	19 243.850	1 291 381.00	32 851.680	114.00	76.00	280 4282
			40.0	837.852	1067.328	11183 33.00	5986 27.30	32.370	23.683	24 851.850	19 954.240	1 347 325.00	34 149.080	120.00	80.00	279 3981
			42.0	874.277	1 113.729	11572 72.00	619 098.20	32.235	23.577	25 717.160	20 636.610	1 401 890.00	35 405.110	126.00	84.00	278 3680
			44.0	910.182	1 159.467	11946 80.00	638 737.80	32.099	23.471	26 548.450	21 291.260	1 455 049.00	36 619.950	132.00	88.00	277 3379
			46.0	945.565	1 204.541	1 230 569.00	657 555.60	31.963	23.364	27	21	15067 78.00	37 793.770	138.00	92.00	276 3078

										345.980	918.520					
			48.0	980.428	1248.952	1264 951.00	675 561.20	31.825	23.257	2 8 110.020	2 2 518.710	1 557 052.00	38 926.770	144.00	96.00	275 2777
			50.0	1 014.770	1292.700	1 297 837.00	692 764.40	31.686	23.15	2 8 840.820	2 3 092.150	1605 848.00	4001 9.090	150.00	100.00	274 2477

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
900	700	±7.00	20.0	476.363	606.832	719 605.60	491 226.50	34.436	28.452	15 991.240	1403 5.040	938 185.70	22 714.860	60.00	40.00	309 6990
			2	565.3	720.	842	574	34	28	18	16	1 111	2668	72.	48.	307

			4.0	87	238	402.00	585.10	.200	.245	720.050	416.720	486.00	0.320	00	00	6388
			30.0	695.017	885.372	1013 841.00	690 710.60	33 .839	27 .931	22 529.810	19 734.590	1361 407.00	3228 0.090	90.00	60.00	3 045 486
			36.0	819.961	104 4.536	1 170 262.00	796 394.10	33 .472	27 .612	2600 5.830	22 754.120	1598 607.00	37 468.210	108 .00	72.00	3 014 583
			40.0	900.652	114 7.328	1266 360.00	861 189.60	33 .223	27 .397	28 141.330	24 605.420	1 749 294.00	40 701.470	120 .00	80.00	299 3 981
1000	400	±5.00	20.0	413.563	526.832	636 400.90	153 313.20	34 .756	17 .059	12 728.020	7 665.661	417 041.70	13 849.810	60.00	40.00	269 6 990
			24.0	490.027	624.238	740 992.10	177 612.50	34 .453	16 .868	14 819.840	8880 .627	489 921.00	16 126.150	72.00	48.00	267 6388
			30.0	600.817	765.372	884 149.50	210 369.10	33 .988	16 .579	17 682.990	10 518.460	5919 70.00	19 246.790	90.00	60.00	2 645 486
			36.0	706.921	900.536	1011 122.00	2388 78.90	33 .508	16 .287	20 222.450	11 943.940	684 874.30	22 022.340	108 .00	72.00	2 614 583
			40.0	775.052	987.328	1086 941.00	255 628.70	33 .180	16 .091	2173 8.830	12 781.440	7415 06.00	23 684.750	120 .00	80.00	259 3981
1000	500	±6.50	20.0	444.963	566.832	732 454.20	252 360.50	35 .947	21 .100	14 649.090	10 094.420	619 667.40	17 682.760	60.00	40.00	289 6990
			24.0	527.707	672.238	855 324.20	293 811.50	35 .670	20 .906	17 106.480	11 752.460	731 211.90	20 683.990	72.00	48.00	287 6388

			30.0	647.917	825.372	1025329.00	350674.40	35.246	20.612	20506.590	14026.980	889925.40	24864.910	90.00	60.00	2845486
			36.0	763.441	972.536	1178473.00	401370.20	34.810	20.315	23569.470	16054.810	1037775.00	28667.800	108.00	72.00	2814583
			40.0	837.852	1067.328	1271368.00	431858.20	34.513	20.115	25427.360	17274.330	1130012.00	30996.550	120.00	80.00	2793981
1000	600	±6.80	20.0	476.363	606.832	828507.60	379749.40	36.95	25.016	16570.150	12658.310	846232.10	21518.800	60.00	40.00	3096990
			26.0	609.118	775.946	1 037 244.00	474112.40	36.562	24.719	20744.880	15803.750	1 076 886.00	27041.520	78.00	52.00	3066088
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
900	700	±7.00	20.0	476.363	606.832	719605.60	491226.50	34.436	28.452	15991.240	14035.040	938185.70	22714.860	60.00	40.00	3096990
			24.0	565.387	720.238	842402.00	574585.10	34.200	28.245	18720.050	16416.720	1 111 486.00	26680.320	72.00	48.00	3076388
			30	695.0	885.	1013	690	33	27	22	19	1361	3228	90.	60.	3

			0.0	17	372	841.00	710.60	.839	.931	529.810	734.590	407.00	0.090	00	00	045 486
			36.0	819.961	1044.536	1 170262.00	79639410	33.472	27.612	26005.830	22754.120	1598607.00	37468.210	108.00	72.00	3014 583
			40.0	900.652	1147.328	1266360.00	86189.60	33.223	27.397	28141.330	24605.420	1 749294.00	40701.470	120.00	80.00	2993 981
1000	400	±5.00	20.0	413.563	526.832	636400.90	153313.20	34.756	17.059	12728.020	7665.661	417041.70	13849.810	60.00	40.00	2696 990
			24.0	490.027	624.238	740992.10	177612.50	34.453	16.868	14819.840	8880.627	489921.00	16126.150	72.00	48.00	2676388
			30.0	600.817	765.372	884149.50	210369.10	33.988	16.579	17682.990	10518.460	591970.00	19246.790	90.00	60.00	2645 486
			36.0	706.921	900.536	1011122.00	238878.90	33.508	16.287	20222.450	11943.940	684874.30	22022.340	108.00	72.00	2614 583
			40.0	775.052	987.328	1086941.00	255628.70	33.180	16.091	21738.830	12781.440	741506.00	23684.750	120.00	80.00	2593981
1000	500	±6.50	20.0	444.963	566.832	732454.20	252360.50	35.947	21.100	14649.090	10094.420	619667.40	17682.760	60.00	40.00	2896990
			24.0	527.707	672.238	855324.20	293811.50	35.670	20.906	17106.480	11752.460	731211.90	20683.990	72.00	48.00	2876388
			30.0	647.917	825.372	1025329.00	350674.40	35.246	20.612	20506.590	14026.980	889925.40	24864.910	90.00	60.00	2845486

			36.0	763.441	972.536	1178473.00	401370.20	34.810	20.315	23569.470	16054.810	1037775.00	28667.800	108.00	72.00	2814583
			40.0	837.852	1067.328	1271368.00	431858.20	34.513	20.115	25427.360	17274.330	1130012.00	30996.550	120.00	80.00	2793981
1000	600	±6.80	20.0	476.363	606.832	828507.60	379749.40	36.95	25.016	16570.150	12658.310	846232.10	21518.800	60.00	40.00	3096990
			26.0	609.118	775.946	1 037 244.00	474112.40	36.562	24.719	20744.880	15803.750	1 076 886.00	27041.520	78.00	52.00	3066088

表 2 矩形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 2 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of rectangular steel sections (continued)

边长 mm		尺寸允许偏差 mm	壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4		惯性半径 cm		弹性截面模数 cm^3		扭转常数 cm^4	扭转模数 cm^3	公称外圆弧半径 mm	公称内圆弧半径 mm	每米长度的表面积 mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
1000	600	±6.80	30.0	695.017	885.372	1166509.00	532248.20	36.298	24.519	23330.190	17741.610	1224037.00	30492.850	90.00	60.00	3045486
			36.0	819.961	1 044.536	1345824.00	612488.30	35.895	24.215	26916.490	20416.280	1 434 310.00	35329.760	108.00	72.00	3 014 583

			40.0	900.652	1147.328	1 455 795.00	661 454.00	35.621	24.011	29 115.890	22 048.470	1 567 216.00	3833 0.600	120.00	80.00	299 3981
1000	700	±7.00	20.0	507.763	646.832	924 560.90	537 479.90	37.807	28.826	18 491.220	1535 6.570	1 092 295.00	25 356.580	60.00	40.00	329 6990
			30.0	742.117	945.372	1307 689.00	7580 90.60	37.192	28.318	26 153.790	21 659.730	1 587 421.00	36 126.350	90.00	60.00	324 5486
			36.0	876.481	1116.536	1513 175.00	875 833.20	36.814	28.008	30 263.510	25 023.810	1866 036.00	4200 1.030	108.00	72.00	321 4583
			38.0	920.227	1172.264	1 577 684.00	9127 08.60	36.686	27.903	31 553.680	26 077.390	1955 654.00	43 862,980	114.00	76.00	320 4282
			40.0	963.452	1227.328	1640 221.00	948 416.20	36.557	27.798	32 804.430	27 097.610	2043 595.00	45 677.190	120.00	80.00	319 3981
1000	800	±8.00	20.0	539.163	686.832	1020 614.00	727 551.90	38.548	32.547	20 412.290	18 188.800	1354 449.00	29 195.460	60.00	40.00	349 6990
			24.0	640.747	816.238	1198 321.00	8536 79.90	38.316	32.340	23 966.410	2134 2.000	1 607 537.00	3438 0.820	72.00	48.00	347 6388
			30.0	789.217	1005.372	1448 869.00	1031 202.00	37.962	32.026	28 977.390	25 780.040	1 974 836.00	41 763.310	90.00	60.00	3 445 486
			32.0	837.666	1067.090	1528 170.00	1087 311.00	37.843	31.921	30 563.390	27 182.780	2093 851.00	44 119.840	96.00	64.00	3 435 185
			36.0	933.001	1188.536	1680 526.00	1195 005.00	37.602	31.709	33 610.530	29 875.120	2326 559.00	48 678.080	108.00	72.00	3 414 583

			40.0	1026.252	1307.328	1824 648.00	1296 745.00	37.359	31.495	36 492.960	32 418.620	2551 957.00	53 031.540	120.00	80.00	339 3 981
Side length mm		Dimensional tolerance mm	Wall thickness mm	Theoretical weight per unit length kg/m	Sectional area cm^2	Moment of inertia cm^4		Radius of gyration cm		Elastic section modulus cm^3		Torsional constant cm^4	Torsional modulus cm^3	Nominal outer arc radius mm	Nominal inner arc radius mm	Surface area per meter length mm^2/m
H	B_1	±Δ	t	M	A	I_x	I_y	r_x	r_y	W_x	W_y	I_t	C_t	R	r	A_s
1000	600	±6.80	30.0	695.017	885.372	1166 509.00	532 248.20	36.298	24.519	2333 0.190	17 741.610	1224 037.00	30 492.850	90.00	60.00	304 5486
			36.0	819.961	1 044.536	1345 824.00	612 488.30	35.895	24.215	26 916.490	20 416.280	1 434 310.00	35 329.760	108.00	72.00	3 014 583
			40.0	900.652	1147.328	1 455 795.00	661 454.00	35.621	24.011	29 115.890	22 048.470	1 567 216.00	3833 0.600	120.00	80.00	299 3981
1000	700	±7.00	20.0	507.763	646.832	924 560.90	537 479.90	37.807	28.826	18 491.220	1535 6.570	1 092 295.00	25 356.580	60.00	40.00	329 6990
			30.0	742.117	945.372	1307 689.00	7580 90.60	37.192	28.318	26 153.790	21 659.730	1 587 421.00	36 126.350	90.00	60.00	324 5486
			36.0	876.481	1116.536	1513 175.00	875 833.20	36.814	28.008	30 263.510	25 023.810	1866 036.00	4200 1.030	108.00	72.00	321 4583
			3	920.2	117	1 577	9127	36	27	31	26	1955	43	114	76.	320

			8.0	27	2.264	684.00	08.60	.686	.903	553.680	077.390	654.00	862,980	.00	00	4282
			40.0	963.452	1227.328	1640221.00	948416.20	36.557	27.798	32804.430	27097.610	2043595.00	45677.190	120.00	80.00	3193981
1000	800	±8.00	20.0	539.163	686.832	1020614.00	727551.90	38.548	32.547	20412.290	18188.800	1354449.00	29195.460	60.00	40.00	3496990
			24.0	640.747	816.238	1198321.00	853679.90	38.316	32.340	23966.410	21342.000	1 607537.00	34380.820	72.00	48.00	3476388
			30.0	789.217	1005.372	1448869.00	1031202.00	37.962	32.026	28977.390	25780.040	1 974836.00	41763.310	90.00	60.00	3 445 486
			32.0	837.666	1067.090	1528170.00	1087311.00	37.843	31.921	30563.390	27182.780	2093851.00	44119.840	96.00	64.00	3 435 185
			36.0	933.001	1188.536	1680526.00	1195005.00	37.602	31.709	33610.530	29875.120	2326559.00	48678.080	108.00	72.00	3 414 583
			40.0	1026.252	1307.328	1824648.00	1296745.00	37.359	31.495	36492.960	32418.620	2551957.00	53031.540	120.00	80.00	3393 981

表 3 圆形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性

Table 3 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of round steel sections

公称外径 mm	允许偏差 mm	公称壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性模数 cm^3	塑性模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	每米长度表面积 mm^2/m
D	±Δ	t	M	A	I	R	Z	S	J	C	A_s

21.00 (21.30)	±0.50	1.2	0.595	0.758	0.384	0.712	0.361	0.485	0.768	0.721	66 916
		1.5	0.732	0.933	0.460	0.702	0.432	0.589	0.920	0.864	66 916
		1.75	0.844	1.075	0.518	0.694	0.486	0.671	1.035	0.972	66 916
		2.0	0.952	1.213	0.571	0.686	0.536	0.748	1.141	1.072	66 916
		2.5	1.159	1.477	0.664	0.671	0.623	0.889	1.328	1.247	66 916
		3.0	1.354	1.725	0.741	0.656	0.696	1.014	1.483	1.392	66 916
26.80 (26,90)	±0.50	1.2	0.758	0.965	0.792	0.906	0.591	0.787	1.585	1.183	84 195
		1.5	0.936	1.192	0.957	0.896	0.714	0.961	1.915	1.429	84 195
		1.75	1.081	1.377	1.086	0.888	0.810	1.100	2.171	1.620	84 195
		2.0	1.223	1.558	1.206	0.880	0.900	1.233	2.412	1.800	84 195
		2.5	1.498	1.909	1.424	0.864	1.062	1.481	2.847	2.125	84 195
		3.0	1.761	2.243	1.613	0.848	1.204	1.708	3.227	2.408	84 195
33.50 (33.70)	±0.50	1.5	1.184	1.508	1.934	1.133	1.155	1.537	3.869	2.31	105 243
		2.0	1.554	1.979	2.465	1.116	1.471	1.987	4.929	2.943	105 243
		2.5	1.911	2.435	2.944	1.100	1.757	2.408	5.887	3.515	105 243
		3.0	2.257	2.875	3.375	1.084	2.015	2.800	6.750	4.030	105 243
		3.5	2.589	3.299	3.762	1.068	2.246	3.164	7.523	4.491	105 243
		4.0	2.910	3.707	4.107	1.053	2.452	3.502	8.213	4.904	105 243

42.30 (42.40)	±0.50	1.5	1.509	1.923	4.006	1.443	1.894	2.498	8.012	3.788	132 889
		2.0	1.988	2.532	5.153	1.427	2.436	3.251	10.306	4.873	132889
		2.5	2.454	3.126	6.214	1.410	2.938	3.965	12.428	5.876	132889
		3.0	2.908	3.704	7.193	1.394	3.401	4.642	14.385	6.801	132889
		4.0	3.778	4.813	8.921	1.361	4.218	5.889	17.843	8.436	132889
Nominal outside diameter mm	Permissible deviation mm	Nominal wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic modulus cm^3	Plastic modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Surface area per meter mm^2/m
D	±Δ	t	M	A	I	R	Z	S	J	C	A_s
21.00 (21.30)	±0.50	1.2	0.595	0.758	0.384	0.712	0.361	0.485	0.768	0.721	66 916
		1.5	0.732	0.933	0.460	0.702	0.432	0.589	0.920	0.864	66 916
		1.75	0.844	1.075	0.518	0.694	0.486	0.671	1.035	0.972	66 916
		2.0	0.952	1.213	0.571	0.686	0.536	0.748	1.141	1.072	66 916
		2.5	1.159	1.477	0.664	0.671	0.623	0.889	1.328	1.247	66 916
		3.0	1.354	1.725	0.741	0.656	0.696	1.014	1.483	1.392	66 916
26.80 (26,90)	±0.50	1.2	0.758	0.965	0.792	0.906	0.591	0.787	1.585	1.183	84 195
		1.5	0.936	1.192	0.957	0.896	0.714	0.961	1.915	1.429	84 195
		1.75	1.081	1.377	1.086	0.888	0.810	1.100	2.171	1.620	84 195

		2.0	1.223	1.558	1.206	0.880	0.900	1.233	2.412	1.800	84 195
		2.5	1.498	1.909	1.424	0.864	1.062	1.481	2.847	2.125	84 195
		3.0	1.761	2.243	1.613	0.848	1.204	1.708	3.227	2.408	84 195
33.50 (33.70)	±0.50	1.5	1.184	1.508	1.934	1.133	1.155	1.537	3.869	2.31	105 243
		2.0	1.554	1.979	2.465	1.116	1.471	1.987	4.929	2.943	105 243
		2.5	1.911	2.435	2.944	1.100	1.757	2.408	5.887	3.515	105 243
		3.0	2.257	2.875	3.375	1.084	2.015	2.800	6.750	4.030	105 243
		3.5	2.589	3.299	3.762	1.068	2.246	3.164	7.523	4.491	105 243
		4.0	2.910	3.707	4.107	1.053	2.452	3.502	8.213	4.904	105 243
42.30 (42.40)	±0.50	1.5	1.509	1.923	4.006	1.443	1.894	2.498	8.012	3.788	132 889
		2.0	1.988	2.532	5.153	1.427	2.436	3.251	10.306	4.873	132889
		2.5	2.454	3.126	6.214	1.410	2.938	3.965	12.428	5.876	132889
		3.0	2.908	3.704	7.193	1.394	3.401	4.642	14.385	6.801	132889
		4.0	3.778	4.813	8.921	1.361	4.218	5.889	17.843	8.436	132889

表 3 圆形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 3 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of round steel sections (continued)

公称外	允许偏差	公称壁	单位长度	截面面	惯性矩	惯性半	弹性模	塑性模	扭转常数	扭转模数	每米长

径 mm	mm	厚 mm	的理论重量 kg/m	积 cm^2	cm^4	径 cm	数 cm^3	数 cm^3	cm^4	cm^3	度表面积 mm^2/m
D	±Δ	t	M	A	I	R	Z	S	J	C	A_s
48.00 (48.30)	±0.50	1.5	1.720	2.191	5.929	1.645	2.470	3.245	11.857	4.941	150 796
		2.0	2.269	2.890	7.659	1.628	3.191	4.235	15.318	6.383	150 796
		2.5	2.805	3.574	9.276	1.611	3.865	5.181	18.551	7.730	150 796
		3.0	3.329	4.241	10.783	1.595	4.493	6.084	21.566	8.986	150 796
		4.0	4.340	5.529	13.491	1.562	5.621	7.765	26.983	11.243	150 796
		5.0	5.302	6.754	15.822	1.531	6.593	9.287	31.644	13.185	150 796
60.00 (60.30)	±0.60	2.0	2.861	3.644	15.342	2.052	5.114	6.731	30.685	10.228	188 496
		2.5	3.545	4.516	18.699	2.035	6.233	8.271	37.398	12.466	188 496
		3.0	4.217	5.372	21.878	2.018	7.293	9.756	43.756	14.585	188 496
		4.0	5.524	7.037	27.726	1.985	9.242	12.565	55.453	18.484	188 496
		5.0	6.782	8.639	32.938	1.953	10.979	15.167	65.875	21.958	188 496
75.50 (76.10)	±0.76	2.5	4.501	5.733	38.236	2.582	10.129	13.328	76.473	20.258	237 190
		3.0	5.364	6.833	44.972	2.565	11.913	15.778	89.943	23.826	237 190
		4.0	7.053	8.985	57.596	2.532	15.257	20.470	115.193	30.515	237 190
		5.0	8.693	11.074	69.147	2.499	18.317	24.893	138.295	36.634	237 190

88.50 (88.90)	±0.90	3.0	6.326	8.058	73.725	3.025	16.661	21.940	147.450	33.322	278 031
		4.0	8.336	10.619	94.987	2.991	21.466	28.582	189.973	42.932	278 031
		5.0	10.296	13.116	114.721	2.957	25.926	34.903	229.442	51.851	278 031
		6.0	12.207	15.551	133.004	2.925	30.057	40.910	266.008	60.115	278031
114.00 (114.30)	±1.15	4.0	10.851	13.823	209.349	3.892	36.728	48.421	418.699	73.456	358 142
		5.0	13.441	17.122	254.813	3.858	44.704	59.447	509.627	89.408	358 142
		6.0	15.981	20.358	297.729	3.824	52.233	70.056	595.457	104.466	358 142
Nominal outside diameter mm	Permissible deviation mm	Nominal wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic modulus cm^3	Plastic modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Surface area per meter length mm^2/m
D	±Δ	t	M	A	I	R	Z	S	J	C	A_s
48.00 (48.30)	±0.50	1.5	1.720	2.191	5.929	1.645	2.470	3.245	11.857	4.941	150 796
		2.0	2.269	2.890	7.659	1.628	3.191	4.235	15.318	6.383	150 796
		2.5	2.805	3.574	9.276	1.611	3.865	5.181	18.551	7.730	150 796
		3.0	3.329	4.241	10.783	1.595	4.493	6.084	21.566	8.986	150 796
		4.0	4.340	5.529	13.491	1.562	5.621	7.765	26.983	11.243	150 796
		5.0	5.302	6.754	15.822	1.531	6.593	9.287	31.644	13.185	150 796
60.00	±0.60	2.0	2.861	3.644	15.342	2.052	5.114	6.731	30.685	10.228	188 496

(60.30)		2.5	3.545	4.516	18.699	2.035	6.233	8.271	37.398	12.466	188 496
		3.0	4.217	5.372	21.878	2.018	7.293	9.756	43.756	14.585	188 496
		4.0	5.524	7.037	27.726	1.985	9.242	12.565	55.453	18.484	188 496
		5.0	6.782	8.639	32.938	1.953	10.979	15.167	65.875	21.958	188 496
75.50 (76.10)	±0.76	2.5	4.501	5.733	38.236	2.582	10.129	13.328	76.473	20.258	237 190
		3.0	5.364	6.833	44.972	2.565	11.913	15.778	89.943	23.826	237 190
		4.0	7.053	8.985	57.596	2.532	15.257	20.470	115.193	30.515	237 190
		5.0	8.693	11.074	69.147	2.499	18.317	24.893	138.295	36.634	237 190
88.50 (88.90)	±0.90	3.0	6.326	8.058	73.725	3.025	16.661	21.940	147.450	33.322	278 031
		4.0	8.336	10.619	94.987	2.991	21.466	28.582	189.973	42.932	278 031
		5.0	10.296	13.116	114.721	2.957	25.926	34.903	229.442	51.851	278 031
		6.0	12.207	15.551	133.004	2.925	30.057	40.910	266.008	60.115	278031
114.00 (114.30)	±1.15	4.0	10.851	13.823	209.349	3.892	36.728	48.421	418.699	73.456	358 142
		5.0	13.441	17.122	254.813	3.858	44.704	59.447	509.627	89.408	358 142
		6.0	15.981	20.358	297.729	3.824	52.233	70.056	595.457	104.466	358 142

表 3 圆形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 3 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of round steel sections (continued)

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公称外径 mm	允许偏差 mm	公称壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性模数 cm^3	塑性模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	每米长度表面积 mm^2/m
D	$\pm\Delta$	t	M	A	I	R	Z	S	J	C	A_s
140.00 (139.70)	±1.40	4.0	13.416	17.090	395.469	4.810	56.496	74.005	790.937	112.991	439 823
		5.0	16.647	21.206	483.756	4.776	69.108	91.167	967.512	138.216	439 823
		6.0	19.828	25.258	568.062	4.742	81.152	107.808	1 136.123	162.303	439 823
165.00 (168.30)	±1.65	4.0	15.882	20.232	655.942	5.694	79.508	103.705	1 311.884	159.016	518 363
		5.0	19.729	25.133	805.033	5.660	97.580	128.042	1610.066	195.160	518 363
		6.0	23.527	29.971	948.463	5.625	114.965	151.758	1896.926	229.930	518 363
		8.0	30.975	39.458	1 218.919	5.558	147.748	197.363	2437.839	295.496	518 363
219.10	±2.20	5.0	26.400	33.631	1928.043	7.572	175.997	229.236	3856.086	351.993	688 323
		6.0	31.532	40.168	2281.947	7.537	208.302	272.542	4 563.895	416.604	688

											323
		8.0	41.648	53.055	2959.633	7.469	270.163	356.676	5 919.266	540.325	688 323
		10.0	51.567	65.691	3598.439	7.401	328.475	437.561	7196.878	656.949	688 323
273.00	±2.75	5.0	33.046	42.097	3780.815	9.477	276.983	359.162	7 561.630	553.966	857 655
		6.0	39.508	50.328	4487.084	9.442	328.724	427.806	8 974.168	657.448	857 655
		8.0	52.282	66.602	5851.714	9.373	428.697	561.971	11 703.429	857.394	857 655
		10.0	64.860	82.624	7 154.093	9.305	524.109	692.023	14308.18 5	1 048.219	857 655
325.00 (323.90)	±3.25	5.0	39.458	50.265	6 435.553	11.315	396.034	512.042	12 871.105	792.068	1 021 018
		6.0	47.202	60.130	7 651.328	11.280	470.851	610.638	15 302.655	941.702	1 021 018
		8.0	62.542	79.671	10 013.921	11.211	616.241	804.083	20 027.842	1 232.483	1021 018
		10.0	77.684	98.960	12 286.523	11.143	756.094	992.583	24 573.047	1512.187	1021 018

		12.0	92.629	117.998	14 471.449	11.074	890.551	1 176.204	28 942.898	1781.101	1 021 018
Nominal outside diameter mm	Permissible deviation mm	Nominal wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic modulus cm^3	Plastic modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Surface area per meter length mm^2/m
D	$\pm\Delta$	t	M	A	I	R	Z	S	J	C	A_s
140.00 (139.70)	±1.40	4.0	13.416	17.090	395.469	4.810	56.496	74.005	790.937	112.991	439 823
		5.0	16.647	21.206	483.756	4.776	69.108	91.167	967.512	138.216	439 823
		6.0	19.828	25.258	568.062	4.742	81.152	107.808	1 136.123	162.303	439 823
165.00 (168.30)	±1.65	4.0	15.882	20.232	655.942	5.694	79.508	103.705	1 311.884	159.016	518 363
		5.0	19.729	25.133	805.033	5.660	97.580	128.042	1610.066	195.160	518 363
		6.0	23.527	29.971	948.463	5.625	114.965	151.758	1896.926	229.930	518 363
		8.0	30.975	39.458	1 218.919	5.558	147.748	197.363	2437.839	295.496	518 363
219.10	±2.20	5.0	26.400	33.631	1928.043	7.572	175.997	229.236	3856.086	351.993	688

											323
		6.0	31.532	40.168	2281.947	7.537	208.302	272.542	4 563.895	416.604	688 323
		8.0	41.648	53.055	2959.633	7.469	270.163	356.676	5 919.266	540.325	688 323
		10.0	51.567	65.691	3598.439	7.401	328.475	437.561	7196.878	656.949	688 323
273.00	±2.75	5.0	33.046	42.097	3780.815	9.477	276.983	359.162	7 561.630	553.966	857 655
		6.0	39.508	50.328	4487.084	9.442	328.724	427.806	8 974.168	657.448	857 655
		8.0	52.282	66.602	5851.714	9.373	428.697	561.971	11 703.429	857.394	857 655
		10.0	64.860	82.624	7 154.093	9.305	524.109	692.023	14308.18 5	1 048.219	857 655
325.00 (323.90)	±3.25	5.0	39.458	50.265	6 435.553	11.315	396.034	512.042	12 871.105	792.068	1 021 018
		6.0	47.202	60.130	7 651.328	11.280	470.851	610.638	15 302.655	941.702	1 021 018
		8.0	62.542	79.671	10 013.921	11.211	616.241	804.083	20 027.842	1 232.483	1021 018

		10.0	77.684	98.960	12 286.523	11.143	756.094	992.583	24 573.047	1512.187	1021 018
		12.0	92.629	117.998	14 471.449	11.074	890.551	1 176.204	28 942.898	1781.101	1 021 018

表 3 圆形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 3 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of round steel sections (continued)

公称外径 mm	允许偏差 mm	公称壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性模数 cm^3	塑性模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	每米长度表面积 mm^2/m
D	±Δ	t	M	A	I	R	Z	S	J	C	A_s
355.60	±3.55	6.0	51.730	65,898	10 070.553	12.362	566.398	733.393	20 141.106	1132.79 6	1117 150
		8.0	68.579	87.361	13 201.375	12.293	742.485	966.777	26 402.749	1 484.969	1117 150
		10.0	85.230	108.57 3	16 223.500	12.224	912.458	1194.72 7	32 446.999	1824.91 6	1117 150
		12.0	101.684	129.53 4	19 139.474	12.156	1076.46 1	1417.30 8	38 278.947	2152.92 2	1117 150
406.40	±4.10	8.0	78.601	100.12 9	19873.89 3	14.088	978.046	1 269.951	39 747.786	1 956.092	1 276 743

		10.0	97.758	124.533	24 475.813	14.019	1204.518	1571.663	48 951.625	2409.037	1 276 743
		12.0	116.718	148.685	28 937.014	13.951	1424.066	1867.192	57 874.027	2 848.131	1 276 743
457.00	±4.60	8.0	88.584	112.846	28 446.363	15.877	1 244.917	1612.979	56892.726	2489.835	1 435 708
		10.0	110.237	140.429	35 091.324	15.808	1535.725	1998.423	70 182.648	3 071.451	1 435 708
		12.0	131.692	167.761	41 556.299	15.739	1818.656	2376.876	83 112.598	3 637.313	143570 8
508.00	±5.10	8.0	98.646	125.664	39 279.961	17.68	1546.455	2000.171	78 559.923	3092.910	1 595 929
		10.0	122.814	156.451	48 520.246	17.611	1910.246	2480.373	97 040.492	3820.492	1 595 929
		12.0	146.785	186.988	57 536.083	17.541	2265.2	2952.768	115 072.166	4 530.400	1 595 929
610.00	±6.10	8.0	118.77	151.299	68 551.354	21.286	2247.585	2899.403	137 102.707	4 495.171	191637 2
		10.0	147.969	188.496	84 846.564	21.216	2781.855	3600.333	169 693.127	5 563.709	191637 2
		12.5	184.191	234.638	104 754.735	21.129	3434.581	4 463.229	209 509.47	6869.163	1916 372

		16.0	234.383	298.577	131 781.423	21.009	4320.702	5 646.741	263 562.845	8 641.405	191637 2
		20.0	291.005	370.707	161 489.507	20.8716	5294.737	6 964.666	322 979.0139	10 589.475	191637 2
Nominal outside diameter mm	Permissible deviation mm	Nominal wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic modulus cm^3	Plastic modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Surface area per meter length mm^2/m
D	$\pm\Delta$	t	M	A	I	R	Z	S	J	C	A_s
355.60	±3.55	6.0	51.730	65,898	10 070.553	12.362	566.398	733.393	20 141.106	1132.796	1117 150
		8.0	68.579	87.361	13 201.375	12.293	742.485	966.777	26 402.749	1 484.969	1117 150
		10.0	85.230	108.573	16 223.500	12.224	912.458	1194.727	32 446.999	1824.916	1117 150
		12.0	101.684	129.534	19 139.474	12.156	1076.461	1417.308	38 278.947	2152.922	1117 150
406.40	±4.10	8.0	78.601	100.129	19873.893	14.088	978.046	1 269.951	39 747.786	1 956.092	1 276 743
		10.0	97.758	124.533	24 475.813	14.019	1204.518	1571.663	48 951.625	2409.037	1 276 743
		12.0	116.718	148.68	28	13.951	1424.06	1867.19	57	2	1 276

				5	937.014		6	2	874.027	848.131	743
457.00	±4.60	8.0	88.584	112.846	28 446.363	15.877	1 244.917	1612.979	56892.726	2489.835	1 435 708
		10.0	110.237	140.429	35 091.324	15.808	1535.725	1998.423	70 182.648	3 071.451	1 435 708
		12.0	131.692	167.761	41 556.299	15.739	1818.656	2376.876	83 112.598	3 637.313	143570 8
508.00	±5.10	8.0	98.646	125.664	39 279.961	17.68	1546.455	2000.171	78 559.923	3092.910	1 595 929
		10.0	122.814	156.451	48 520.246	17.611	1910.246	2480.373	97 040.492	3820.492	1 595 929
		12.0	146.785	186.988	57 536.083	17.541	2265.2	2952.768	115 072.166	4 530.400	1 595 929
610.00	±6.10	8.0	118.77	151.299	68 551.354	21.286	2247.585	2899.403	137 102.707	4 495.171	191637 2
		10.0	147.969	188.496	84 846.564	21.216	2781.855	3600.333	169 693.127	5 563.709	191637 2
		12.5	184.191	234.638	104 754.735	21.129	3434.581	4 463.229	209 509.47	6869.163	1916 372
		16.0	234.383	298.577	131 781.423	21.009	4320.702	5 646.741	263 562.845	8 641.405	191637 2

		20.0	291.005	370.707	161 489.507	20.8716	5294.737	6 964.666	322 979.0 139	10 589.475	191637 2

表 3 圆形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

公称外径 mm	允许偏差 mm	公称壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性模数 cm^3	塑性模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	每米长度表面积 mm^2/m
D	$\pm\Delta$	t	M	A	II	R	Z	S	J	C	As
630.00	±7.87	10.0	152.901	194.778	93 615.455	21.9232	2971.919	3 844.333	187230.91	5 943.838	1979203
		12.0	182.889	232.980	111267.903	21.8537	3 532.314	4 583.664	222535.806	7 064.628	1979203
		16.0	242.274	308.629	145 539.012	21.7155	4 620.286	6 033.301	291 078.024	9 240.572	1 979 203
		20.0	300.870	383.274	178 461.946	21.5783	5 665.458	7444.666	356 923.893	11330.917	1 979 203
		25.0	373.004	475.165	217774.282	21.4082	6 913.469	9 155.833	435 548.565	13 826.938	1 979 203
660.00	±8.25	12.0	191.767	244.29	128 266.927	22.9142	3886.876	5 039.42	256 533.855	7 773.753	2073451

		14.0	223.038	284.125	148282.204	22.8449	4493.400	5843.338	296564.409	8986.800	2073451
		16.0	254.111	323.709	167921.031	22.7759	5088.516	6637.141	335842.063	10177.032	2073451
		20.0	315.666	402.123	206088.304	22.6385	6245.100	8194.666	412176.608	12490.200	2073451
		25.0	391.501	498.727	251763.831	22.4680	7629.207	10085.833	503527.663	15258.414	2073451
711.00	±8.90	16.0	274.235	349.344	211039.635	24.5785	5936.417	7729.765	422079.270	11872.834	2 233672
		20.0	340.821	434.167	259350.641	24.4408	7295.376	9552.286	518701.282	14590.753	2 233672
		25.0	422.944	538.782	317357.144	24.2699	8927.064	11770.108	634714.289	17854.129	2 233672
		30.0	503.834	641.826	372789.874	24.1003	10486.353	13921.830	745579.749	20972.707	2 233672
813.00	±10.10	16.0	314.483	400.615	318221.456	28.1839	7828.326	10164.709	636442.912	15656.652	2554115
		20.0	391.131	498.256	391908.999	28.0457	9641.057	12579.646	783817.998	19282.115	2 554115
		25.0	485.831	618.893	480856.057	27.8740	11829.177	15528.808	961712.115	23658.354	2 554115

		30.0	579.298	737.959	566373.762	27.7035	13 932.933	18 401.670	1132747.525	27 865.867	2 554 115
Nominal outside diameter mm	Permissible deviation mm	Nominal wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic modulus cm^3	Plastic modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Surface area per meter length mm^2/m
D	$\pm\Delta$	t	M	A	II	R	Z	S	J	C	As
630.00	±7.87	10.0	152.901	194.778	93 615.455	21.9232	2971.919	3 844.333	187230.91	5 943.838	1979203
		12.0	182.889	232.980	111267.903	21.8537	3 532.314	4 583.664	222535.806	7 064.628	1979203
		16.0	242.274	308.629	145 539.012	21.7155	4 620.286	6 033.301	291 078.024	9 240.572	1 979 203
		20.0	300.870	383.274	178 461.946	21.5783	5 665.458	7444.666	356 923.893	11330.917	1 979 203
		25.0	373.004	475.165	217774.282	21.4082	6 913.469	9 155.833	435 548.565	13 826.938	1 979 203
660.00	±8.25	12.0	191.767	244.29	128 266.927	22.9142	3886.876	5 039.42	256 533.855	7 773.753	2073451
		14.0	223.038	284.125	148282.204	22.8449	4 493.400	5 843.338	296 564.409	8986.800	2073451
		16.0	254.111	323.70	167	22.775	5	6	335	10	2073

				9	921.031	9	088.516	637.141	842.063	177.032	451
		20.0	315.666	402.123	206088.304	22.6385	6245.100	8194.666	412176.608	12490.200	2073451
		25.0	391.501	498.727	251763.831	22.4680	7629.207	10085.833	503527.663	15258.414	2073451
711.00	±8.90	16.0	274.235	349.344	211039.635	24.5785	936.417	7729.765	422079.270	11872.834	2 233672
		20.0	340.821	434.167	259350.641	24.4408	7295.376	9552.286	518701.282	14590.753	2 233672
		25.0	422.944	538.782	317357.144	24.2699	8927.064	11770.108	634714.289	17854.129	2 233672
		30.0	503.834	641.826	372789.874	24.1003	10486.353	13921.830	745579.749	20972.707	2 233672
813.00	±10.10	16.0	314.483	400.615	318221.456	28.1839	7828.326	10164.709	636442.912	15656.652	2554115
		20.0	391.131	498.256	391908.999	28.0457	9641.057	12579.646	783817.998	19282.115	2 554115
		25.0	485.831	618.893	480856.057	27.8740	11829.177	15528.808	961712.115	23658.354	2 554115
		30.0	579.298	737.959	566373.762	27.7035	13932.933	18401.670	1132747.525	27865.867	2 554115

Table 3 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of round steel sections (continued)

表 3 圆形型钢截面尺寸、允许偏差、理论重量、截面面积及截面特性(续)

Table 3 Dimensions, permissible deviations, theoretical weight, cross-sectional area, and section properties of round steel sections (continued)

公称外径 mm	允许偏差 mm	公称壁厚 mm	单位长度的理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4	惯性半径 cm	弹性模数 cm^3	塑性模数 cm^3	扭转常数 cm^4	扭转模数 cm^3	每米长度表面积 mm^2/m
D	±Δ	t	M	A	I	R	Z	S	J	C	A_s
914.00	±11.40	16.0	354.336	451.383	455 141.420	31.7 541	9 959.330	12 903.829	910282.84 0	19918.6 61	2 871 416
		20.0	440.947	561.716	561 460.711	31.6 156	12285.7 92	15 987.386	1122921.4 22	24 571.584	2 871 416
		25.0	548.101	698.218	690 316.291	31.4 433	15 105.389	19 763.233	1380632.5 82	30 210.778	2 871 416
		30.0	654.022	833.149	814774.55 2	31.2 721	17828.7 64	23 452.680	1629549.1 04	35 657.529	2 871 416
1 067.00	±13.33	16.0	414.707	528.289	729 605.819	37.162 8	13 675.835	17674.9 81	1459 211.638	27351.6 70	3 352 079
		20.0	516.411	657.848	901753.84 3	37.023 8	16 902.602	21 926.846	1803507.6 87	33 805.205	3 352 079

		25.0	642.431	818.384	1 111 354.484	36.8 509	20 831.386	27 149.308	2222708.9 68	41 662.773	3 352 079
		30.0	767.218	977.348	1314862.5 66	36.6 788	24 645.971	32 270.070	2629725.1 33	49 291.942	3 352 079
1118.0 0	±13.90	16.0	434.831	553.925	841 038.401	38.9 657	15 045.409	19 431.829	1682076.8 03	30090.8 19	351230 1
		20.0	541.566	689.893	1040017.3 94	38.8 266	18 604.962	24 114.746	2080034.7 88	37 209.924	3 512 30
		25.0	673.875	858.439	1282587.9 70	38.6 535	22 944.328	29 871.433	2 565 175.940	45 888.657	3 512 30
		30.0	804.950	1025.41 5	1518439.6 24	38.4 812	27 163.499	35 521.320	3 036 879.247	54 326.999	351230 1
1 219.00	±15.20	16.0	474.684	604.693	1094090.3 82	42.536 2	17 950.621	23 156.709	2188180.7 63	35 901.243	382960 1
		20.0	591.382	753.353	1354153.4 66	42.396 9	22 217.448	28 754.686	2708306.9 32	44 434.896	382960 1
		25.0	736.145	937.764	1 671 871.372	42.2 235	27 430.211	35 646.108	3 343 742.744	54860.4 22	382960 1
		30.0	879.675	1120.60 5	1981 539.478	42.0 509	32 510.902	42 420.630	3963078.9 55	65 021.804	382960 1
注 1: r 为计算值 $R-t$,非测量值。 注 2:什种情况并找出单种毒品信息的单独项目，并采取自											

Nominal outside diameter mm	Permissible deviation mm	Nominal wall thickness mm	Theoretical weight per unit length kg/m	Cross-sectional area cm^2	Moment of inertia cm^4	Radius of gyration cm	Elastic modulus cm^3	Plastic modulus cm^3	Torsional constant cm^4	Torsional modulus cm^3	Surface area per meter mm^2/m
D	$\pm\Delta$	t	M	A	I	R	Z	S	J	C	A_s
914.00	±11.40	16.0	354.336	451.383	455 141.420	31.7 541	9 959.330	12 903.829	910282.84 0	19918.6 61	2 871 416
		20.0	440.947	561.716	561 460.711	31.6 156	12285.7 92	15 987.386	1122921.4 22	24 571.584	2 871 416
		25.0	548.101	698.218	690 316.291	31.4 433	15 105.389	19 763.233	1380632.5 82	30 210.778	2 871 416
		30.0	654.022	833.149	814774.55 2	31.2 721	17828.7 64	23 452.680	1629549.1 04	35 657.529	2 871 416
1 067.00	±13.33	16.0	414.707	528.289	729 605.819	37.162 8	13 675.835	17674.9 81	1459 211.638	27351.6 70	3 352 079
		20.0	516.411	657.848	901753.84 3	37.023 8	16 902.602	21 926.846	1803507.6 87	33 805.205	3 352 079
		25.0	642.431	818.384	1 111 354.484	36.8 509	20 831.386	27 149.308	2222708.9 68	41 662.773	3 352 079
		30.0	767.218	977.348	1314862.5 66	36.6 788	24 645.971	32 270.070	2629725.1 33	49 291.942	3 352 079
1118.0	±13.90	16.0	434.831	553.925	841	38.9	15	19	1682076.8	30090.8	351230

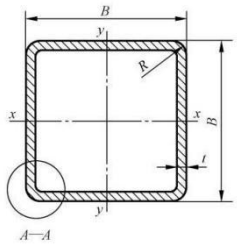
0					038.401	657	045.409	431.829	03	19	1
		20.0	541.566	689.893	1040017.394	38.8266	18604.962	24114.746	2080034.788	37209.924	3 512 30
		25.0	673.875	858.439	1282587.970	38.6535	22944.328	29871.433	2 565175.940	45888.657	3 512 30
		30.0	804.950	1025.415	1518439.624	38.4812	27163.499	35521.320	3 036879.247	54326.999	3512301
1219.00	±15.20	16.0	474.684	604.693	1094090.382	42.5362	17950.621	23156.709	2188180.763	35901.243	3829601
		20.0	591.382	753.353	1354153.466	42.3969	22217.448	28754.686	2708306.932	44434.896	3829601
		25.0	736.145	937.764	1 671871.372	42.2235	27430.211	35646.108	3 343742.744	54860.422	3829601
		30.0	879.675	1120.605	1981539.478	42.0509	32510.902	42420.630	3963078.955	65021.804	3829601
Note 1: r is a calculated value $R-t$, not a measured value. Note 2: Identify individual items for specific drug information and take self-											

注 2:公称外径括号内为系列 1，括号外(或无括号)为系列 2。

Note 2: For nominal outside diameters, values in parentheses are for Series 1, and values outside parentheses (or without parentheses) are for Series 2.

6.1.1.6 闭口型钢的弯角外圆弧半径 R (或 C_1、C_2)值应符合表 4 的规定。 R (或 C_1、C_2)值的测量方法按图 4 规定或用圆角规进行测量,产生争议时以外圆弧半径 R 值为准。经供需双方协商,并在合同中注明, 可对弯角外圆弧半径一致性进行规定。

.1.6 The external corner radius R (or C_1、C_2) of closed steel sections shall comply with the provisions of Table 4. The measurement method for R (or C_1、C_2) shall be as specified in Figure 4 or by using a radius gauge; in case of dispute, the external corner radius R shall prevail. Upon agreement between the supplier and the purchaser and specified in the contract, requirements for the consistency of the external corner radius may be stipulated.



$A-A$

$A-A$ 放大

$A-A$ Enlarged

标引符号说明:

Key to symbols:

B ——边长;

B —— side length;

t —一壁厚;

t —— wall thickness;

R —外圆弧半径;

R —— external corner radius;

C_1、C_2 一一弯角区域长度。

C_1、C_2 — length of the corner region.

图 4 方形或矩形冷弯闭口型钢的外角剖面

Figure 4 External corner profile of square or rectangular cold-formed closed steel sections

表 4 外圆弧半径 **R** (或 $\mathbf{C}_1$、$\mathbf{C}_2$) 值

Table 4 External corner radius **R** (or $\mathbf{C}_1$、$\mathbf{C}_2$) values

公称厚度 t /mm	碳素钢 ($R_{eH} \leq$ *320*MPa)	低合金钢 ($R_{eH} >$ *320*MPa)
$t \leq 3$	(1.0~2.5)t	(1.5~2.5) t
$3 < t \leq 6$	(1.5~2.5)t	(2.0~3.0)t
$6 < t \leq 10$	$(2.0 \sim 3.0)t$	(2.0~3.5)t
$t > 10$	(2.0~3.5)t	(2.5~4.0)t

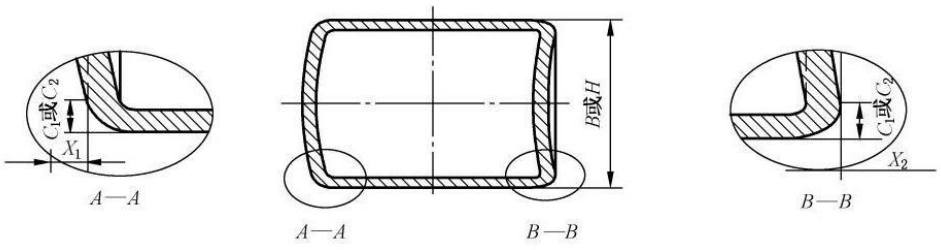
注: R_{eH} 为上屈服强度。

Nominal thickness t /mm	Carbon steel ($R_{eH} \leq$ *320*MPa)	Low-alloy steel ($R_{eH} >$ *320*MPa)
$t \leq 3$	(1.0~2.5)t	(1.5~2.5) t
$3 < t \leq 6$	(1.5~2.5)t	(2.0~3.0)t
$6 < t \leq 10$	$(2.0 \sim 3.0)t$	(2.0~3.5)t
$t > 10$	(2.0~3.5)t	(2.5~4.0)t

Note: R_{eH} is the upper yield strength.

6.1.1.7 型钢截面的平面部分凸凹度 X_1 、 X_2 应不超过该边长的 0.6%，但最小值为 *0.4* mm 。测量方法如图 5 所示。

.1.7 The convexity/concavity of the flat portion of the section steel X_1 , X_2 shall not exceed 0.6% of the side length, with a minimum value of *0.4* mm . The measurement method is shown in Figure 5.



$A \rightarrow A$ 放大 $B \rightarrow B$ 放大

$A \rightarrow A$ Enlarged $B \rightarrow B$ Enlarged

标引符号说明:

Key to symbols:

C_1、C_2 ——弯角区域长度;

C_1、C_2 — length of the corner region;

X_1、X_2 ——平面部分凸凹度;

X_1、X_2 — convexity/concavity of the flat portion;

B ———边长(对方形型钢);

B — side length (for square section steel);

H ——长边边长 (对矩形型钢)。

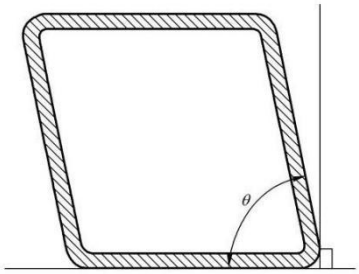
H — long side length (for rectangular section steel).

图 5 方形或矩形型钢平面凸/凹度示意图

Figure 5 Schematic diagram of convexity/concavity of square or rectangular section steel

6.1.1.8 型钢弯曲角度 θ 的偏差不应大于 $\pm 1.5°$,测量方法见图 6 。

.1.8 The deviation of the corner angle θ of the section steel shall not be greater than $\pm 1.5°$; see Figure 6 for the measurement method.



标引符号说明:

Key to symbols:

θ ——弯曲角度。

θ — corner angle.

图 6 弯曲角度

Figure 6 Corner angle

6.1.1.9 型钢尺寸测量位置应符合表 5 或表 6 的规定。

.1.9 The measurement positions for section steel dimensions shall comply with the provisions of Table 5 or Table 6.

表 5 方形或矩形型钢测量位置

Table 5 Measurement positions for square or rectangular section steel

单位为毫米

Dimensions in millimeters

方形或矩形型钢公称边长	距离端部测量位置，不小于
$H(B) \leq 100$	200
$100 < H(B) \leq 300$	300
$300 < H(B) \leq 500$	400
$H(B) > 500$	协议

注: H 为矩形型钢长边边长; B 为方形型钢边长。

Nominal side length of square or rectangular steel section	Measuring position distance from the end, not less than
$H(B) \leq 100$	200
$100 < H(B) \leq 300$	300
$300 < H(B) \leq 500$	400
$H(B) > 500$	Agreement

Note: H is the long side length of rectangular steel section; B is the side length of square steel section.

表 6 圆形型钢测量位置

Table 6 Measurement positions for circular steel sections

单位为毫米

Dimensions in millimeters

圆形型钢公称外径 D	距离端部测量位置, 不小于
$D \leq 114$	100

114 < D ≤ 273	200
273 < D ≤ 508	400
D > 508	协议
Nominal outside diameter of circular steel section *D*	Measurement position from end, not less than
D ≤ 114	100
114 < D ≤ 273	200
273 < D ≤ 508	400
D > 508	Agreement

6.1.2 开口型钢

6.1.2 Open-section steel

6.1.2.1 截面形状及标注符号

6.1.2.1 Cross-sectional shapes and designation symbols

开口型钢截面形状及标注符号分别见图 7 一图 15 。经供需双方协商并在合同中注明，可供应图 7 一图 15 所列截面形状以外的型钢。

The cross-sectional shapes and designation symbols for open-section steel are shown in Figures 7 to 15. Subject to agreement between the supplier and the purchaser and specified in the contract, steel sections other than those listed in Figures 7 to 15 may be supplied.

6.1.2.2 尺寸、理论重量、截面面积及截面参数

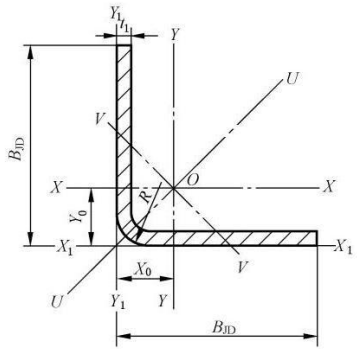
6.1.2.2 Dimensions, theoretical weight, cross-sectional area, and section properties

开口型钢的尺寸、理论重量、截面面积及主要参数见表 7 一表 15 。其中截面面积及截面特性参数仅供参考。

The dimensions, theoretical weight, cross-sectional area, and main parameters of open-section steel are shown in Tables 7 to 15. The cross-sectional area and section property parameters are for reference only.

经供需双方协商并在合同中注明, 可供应表 7 ～ 表 15 所列尺寸以外的型钢, 其参数由供需双方协商。

Subject to agreement between the supplier and the purchaser and specified in the contract, steel sections with dimensions other than those listed in Tables 7 to 15 may be supplied, with parameters determined by mutual agreement.



标引符号说明:

Explanation of symbols:

B_{JD} ——等边角钢边宽度;

B_{JD} — width of equal angle leg;

t_1 — 边厚度;

t_1 — — leg thickness;

R ——外圆弧半径

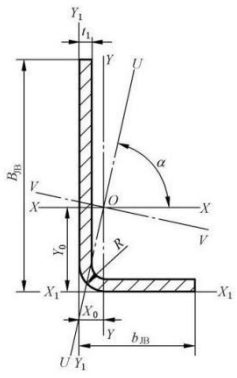
R — external fillet radius;

O ——重心原点。

O — center of gravity origin.

图 7 冷弯等边角钢 (JD)

Figure 7 Cold-formed equal angle steel (JD)



标引符号说明:

Explanation of symbols:

B_{JB} ——不等边角钢长边宽度;

B_{JB} — width of long leg of unequal angle;

b_{JB} ——不等边角钢短边宽度;

b_{JB} — width of short leg of unequal angle;

t_1 ——边厚度;

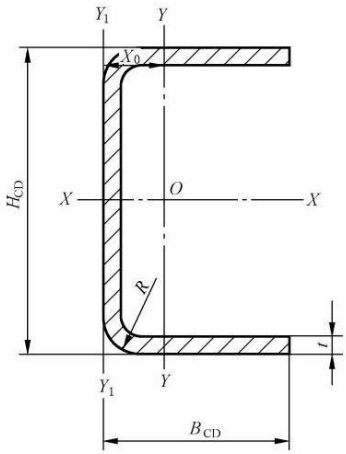
t_1 — leg thickness;

R ——外圆弧半径。

R —— outer arc radius.

图 8 冷弯不等边角钢(JB)

Fig. 8 Cold-formed unequal angle steel (JB)



标引符号说明:

Explanation of symbols:

B_{CD} ——等边槽钢边宽度;

B_{CD} —— flange width of equal channel steel;

H_{CD} ——等边槽钢高度;

H_{CD} —— height of equal channel steel;

+ 一一边厚度;

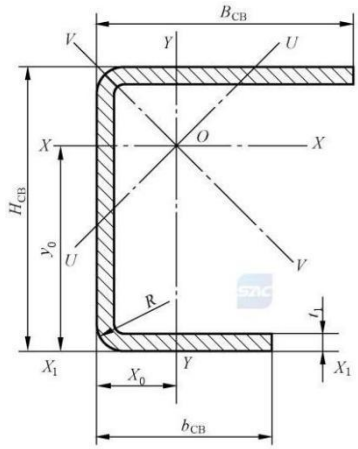
+ —— thickness of flange;

R ——外圆弧半径。

R —— outer arc radius.

图 9 冷弯等边槽钢(CD)

Fig. 9 Cold-formed equal channel steel (CD)



标引符号说明:

Explanation of symbols:

B_{CB} ——不等边槽钢长边宽度;

B_{CB} —— width of long flange of unequal channel steel;

b_{CB} ——不等边槽钢短边宽度(自由边);

b_{CB} —— width of short flange of unequal channel steel (free flange);

H_{CB} ——不等边槽钢高度;

H_{CB} —— height of unequal channel steel;

t_1 ——一边厚度;

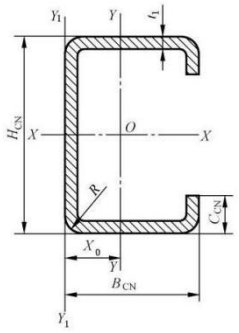
t_1 —— thickness of flange;

R ——外圆弧半径。

R —— outer arc radius.

图 10 冷弯不等边槽钢(CB)

Fig. 10 Cold-formed unequal channel steel (CB)



标引符号说明:

Explanation of symbols:

B_{CN} ——内卷边槽钢边宽度;

B_{CN} — width of the lipped channel steel flange;

H_{CN} ——内卷边槽钢高度;

H_{CN} — height of the lipped channel steel;

C_{CN} ——内卷边槽钢内卷边高度(自由边);

C_{CN} — height of the inner lip of the lipped channel steel (free edge);

t_1 —一边厚度;

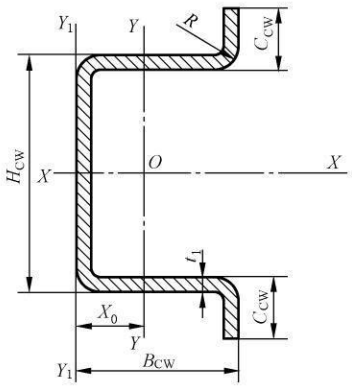
t_1 —— thickness of the flange;

R ——外圆弧半径。

R — outer arc radius.

图 11 冷弯内卷边槽钢(CN)

Figure 11 Cold-formed lipped channel steel (CN)



标引符号说明:

Explanation of symbols:

B_{CW} ——外卷边槽钢边宽度；

B_{CW} — width of the outer-lipped channel steel flange;

H_{CW} ——外卷边槽钢高度；

H_{CW} — height of the outer-lipped channel steel;

C_{CW} ——外卷边槽钢外卷边高度(自由边)；

C_{CW} — height of the outer lip of the outer-lipped channel steel (free edge);

t_1 — 一边厚度;

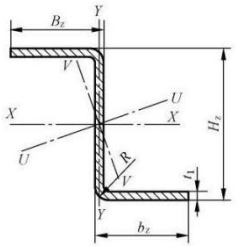
t_1 — — thickness of the flange;

R 一一外卷边弧半径。

R — outer lip arc radius.

图 12 冷弯外卷边槽钢(CW)

Figure 12 Cold-formed outer-lipped channel steel (CW)



标引符号说明:

Explanation of symbols:

B_Z =— Z 型钢上边宽度;

B_Z =— Z — width of the upper flange of the section steel;

b_Z — Z 型钢下边宽度 (自由边)

b_Z — Z — width of the lower flange of the section steel (free edge)

H_Z ——Z 型钢高度；

H_Z — Z-section height;

t_1 — 边厚度;

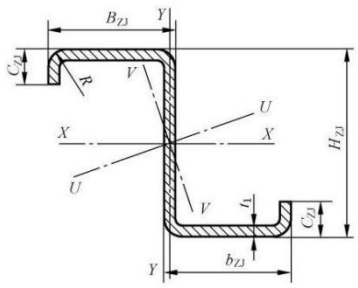
t_1 — flange thickness;

R ——外圆弧半径。

R — outer arc radius.

图 13 冷弯 **Z** 型钢(**Z**)

Fig. 13 Cold-formed **Z** section (**Z**)



标引符号说明:

Key to symbols:

B_{ZJ} ——卷边 Z 型钢边宽度;

B_{ZJ} — lipped Z section flange width;

H_{ZJ} ——卷边 Z 型钢高度;

H_{ZJ} — lipped Z section height;

C_{ZJ} ——卷边 Z 型钢卷边高度(自由边);

C_{ZJ} — lipped Z section lip height (free edge);

t_1 – 一边厚度;

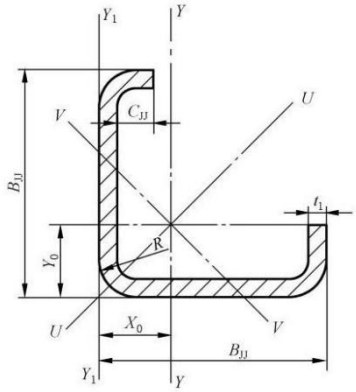
t_1 – — flange thickness;

R ——外圆弧半径。

R — outer arc radius.

图 14 冷弯卷边 Z 型钢(ZJ

Fig. 14 Cold-formed lipped Z section (ZJ



标引符号说明:

Key to symbols:

B_{JJ} ——卷边等边角钢边宽度；

B_{JJ} — lipped equal angle section flange width;

C_{JJ} ——卷边等边角钢卷边高度(自由边)；

C_{JJ} — lipped equal angle section lip height (free edge);

t_1 ——边厚度；

t_1 — flange thickness;

R ——外圆弧半径。

R — outer arc radius.

图 15 卷边等边角钢(JJ)

Fig. 15 Lipped equal angle steel (JJ)

表 7 冷弯等边角钢基本尺寸及截面参数

Table 7 Basic dimensions and section properties of cold-formed equal angle steel

规格	尺寸 mm		理论重量 kg/m	截面面积 cm^2	重心 Y_0 cm	惯性矩 cm^4			回转半径 cm			截面模数 cm^3	
$B_{JD} \times B_{JD} \times t_1$	B_{JD}	t_1				$I_x = I_y$	I_u	I_v	$r_x = r_y$	r_u	r_v	$W_{ymax} = W_{xmax}$	$W_{ymin} = W_{xmin}$
20 × 20 × 1.2	20	1.2	0.354	0.451	0.559	0.179	0.292	0.066	0.630	0.804	0.385	0.321	0.124
20 × 20 × 2.0		2.0	0.566	0.721	0.599	0.278	0.457	0.099	0.621	0.796	0.371	0.464	0.198
30 × 30 × 2.0	30	1.6	0.714	0.909	0.829	0.817	1.328	0.307	0.948	1.208	0.581	0.986	0.376
30 × 30 × 2.0		2.0	0.880	1.121	0.849	0.998	1.626	0.369	0.943	1.204	0.573	1.175	0.464
30 × 30 × 3.0		3.0	1.274	1.623	0.898	1.409	2.316	0.503	0.931	1.194	0.556	1.568	0.671
40 × 40 × 1.6	40	1.6	0.965	1.229	1.079	1.985	3.213	0.758	1.270	1.616	0.785	1.839	0.679
40 × 40 × 2.0		2.0	1.194	1.521	1.099	2.438	3.956	0.919	1.265	1.612	0.777	2.218	0.840
40 × 40 × 2.5		2.5	1.470	1.870	1.132	2.960	4.850	1.070	1.260	1.610	0.760	2.620	1.030
40 × 40 × 3.0		3.0	1.745	2.223	1.148	3.496	5.710	1.282	1.253	1.602	0.759	3.043	1.226
50 × 50 × 2.0	50	2.0	1.508	1.921	1.349	4.848	7.845	1.850	1.588	2.020	0.981	3.593	1.327
50 × 50 × 2.5		2.5	1.860	2.370	1.381	5.930	9.650	2.200	1.580	2.020	0.960	4.290	1.640
50 × 50 × 3.0		3.0	2.216	2.823	1.398	7.015	11.414	2.616	1.576	2.010	0.962	5.015	1.948

50 × 50 × 4.0		4.0	2.894	3.686	1.448	9.022	14.755	3.290	1.564	2.000	0.944	6.229	2.540
60 × 60 × 2.0	60	2.0	1.822	2.321	1.599	8.478	13.694	3.262	1.910	2.428	1.185	5.302	1.926
60 × 60 × 2.5		2.5	2.250	2.870	1.630	10.410	16.90	3.910	1.900	2.430	1.170	6.380	2.380
60 × 60 × 3.0		3.0	2.687	3.423	1.648	12.342	20.028	4.657	1.898	2.418	1.166	7.486	2.836
60 × 60 × 4.0		4.0	3.522	4.486	1.698	15.970	26.030	5.911	1.886	2.408	1.147	9.403	3.712
70 × 70 × 3.0	70	3.0	3.158	4.023	1.898	19.853	32.152	7.553	2.221	2.826	1.370	10.456	3.891
70 × 70 × 4.0		4.0	4.150	5.286	1.948	25.799	41.944	9.654	2.209	2.816	1.351	13.242	5.107
75 × 75 × 2.5	75	2.5	2.840	3.620	2.005	20.650	33.430	7.870	2.390	3.040	1.480	10.300	3.760
75 × 75 × 3.0		3.0	3.390	4.310	2.031	24.470	39.700	9.230	2.380	3.030	1.460	12.050	4.470
Specification	Dimensions mm		Theoretical weight kg/m	Sectional area cm^2	Center of gravity Y_0 cm	Moment of inertia cm^4			Radius of gyration cm			Section modulus cm^3	
$B_{JD} \times B_{JD} \times t_1$	B_{JD}	t_1				$I_x = I_y$	I_u	I_v	$r_x = r_y$	r_u	r_v	$W_{ymax} = W_{xmax}$	$W_{ymin} = W_{xmin}$

20×20×1.2	20	1.2	0.354	0.451	0.559	0.179	0.292	0.066	0.630	0.804	0.385	0.321	0.124
20×20×2.0		2.0	0.566	0.721	0.599	0.278	0.457	0.099	0.621	0.796	0.371	0.464	0.198
30×30×2.0	30	1.6	0.714	0.909	0.829	0.817	1.328	0.307	0.948	1.208	0.581	0.986	0.376
30×30×2.0		2.0	0.880	1.121	0.849	0.998	1.626	0.369	0.943	1.204	0.573	1.175	0.464
30×30×3.0		3.0	1.274	1.623	0.898	1.409	2.316	0.503	0.931	1.194	0.556	1.568	0.671
40×40×1.6	40	1.6	0.965	1.229	1.079	1.985	3.213	0.758	1.270	1.616	0.785	1.839	0.679
40×40×2.0		2.0	1.194	1.521	1.099	2.438	3.956	0.919	1.265	1.612	0.777	2.218	0.840
40×40×2.5		2.5	1.470	1.870	1.132	2.960	4.850	1.070	1.260	1.610	0.760	2.620	1.030
40×40×3.0		3.0	1.745	2.223	1.148	3.496	5.710	1.282	1.253	1.602	0.759	3.043	1.226
50×50×2.0	50	2.0	1.508	1.921	1.349	4.848	7.845	1.850	1.588	2.020	0.981	3.593	1.327
50×50×2.5		2.5	1.860	2.370	1.381	5.930	9.650	2.200	1.580	2.020	0.960	4.290	1.640
50×50×3.0		3.0	2.216	2.823	1.398	7.015	11.414	2.616	1.576	2.010	0.962	5.015	1.948
50×50×4.0		4.0	2.894	3.686	1.448	9.022	14.755	3.290	1.564	2.000	0.944	6.229	2.540
60×60×2.0	60	2.0	1.822	2.321	1.599	8.478	13.694	3.262	1.910	2.428	1.185	5.302	1.926
60×60×2.5		2.5	2.250	2.870	1.630	10.410	16.90	3.910	1.900	2.430	1.170	6.380	2.380

60 × 60 × 3.0		3.0	2.687	3.423	1.648	12.342	20.028	4.657	1.898	2.418	1.166	7.486	2.836
60 × 60 × 4.0		4.0	3.522	4.486	1.698	15.970	26.030	5.911	1.886	2.408	1.147	9.403	3.712
70 × 70 × 3.0	70	3.0	3.158	4.023	1.898	19.853	32.152	7.553	2.221	2.826	1.370	10.456	3.891
70 × 70 × 4.0		4.0	4.150	5.286	1.948	25.799	41.944	9.654	2.209	2.816	1.351	13.242	5.107
75 × 75 × 2.5	75	2.5	2.840	3.620	2.005	20.650	33.430	7.870	2.390	3.040	1.480	10.300	3.760
75 × 75 × 3.0		3.0	3.390	4.310	2.031	24.470	39.700	9.230	2.380	3.030	1.460	12.050	4.470

表 7 冷弯等边角钢基本尺寸及截面参数(续)

Table 7 Basic dimensions and section properties of cold-formed equal angles (continued)

规格	尺寸 mm		理论重量 kg/m	截面面积 cm^2	重心 Y_0 cm	惯性矩 cm^4			回转半径 cm			截面模数 cm^3	
$B_{JD} \times B_{JD} \times t_1$	B_{JD}	t_1				$I_x = I_y$	I_u	I_v	$r_x = r_y$	r_u	r_v	$W_{ymax} = W_{xmax}$	$W_{ymin} = W_{xmin}$
80 × 80 × 4.0	80	4.0	4.778	6.086	2.198	39.009	63.299	14.719	2.531	3.224	1.555	17.745	6.723
80 × 80 × 5.0		5.0	5.895	7.510	2.247	47.677	77.622	17.731	2.519	3.214	1.536	21.209	8.288

100×100×4.0	100	4.0	6.034	7.686	2.698	77.571	125.528	29.613	3.176	4.041	1.962	28.749	10.623
100×100×5.0		5.0	7.465	9.510	2.747	95.237	154.539	35.335	3.164	4.031	1.943	34.659	13.132
150×150×6.0	150	6.0	13.458	17.254	4.062	391.442	635.468	147.415	4.763	6.069	2.923	96.367	35.787
150×150×8.0		8.0	17.685	22.673	4.169	508.593	830.207	186.979	4.736	6.051	2.872	121.994	46.957
150×150×10		10	21.783	27.927	4.277	619.211	1016.638	221.785	4.709	6.034	2.818	144.777	57.746
200×200×6.0	200	6.0	18.138	23.254	5.310	945.753	1529.328	362.177	6.377	8.110	3.947	178.108	64.381
200×200×8.0		8.0	23.925	30.673	5.416	1237.149	2008.393	465.905	6.351	8.091	3.897	228.425	84.829
200×200×10		10	29.583	37.927	5.522	1516.787	2472.471	561.104	6.324	8.074	3.846	274.681	104.765
250×250×8.0	250	8.0	30.164	38.672	6.664	2453.559	3970.580	936.538	7.965	10.133	4.921	368.181	133.811
250×250×10		10	37.383	47.927	6.770	3020.384	4903.304	1137.464	7.939	10.114	4.872	446.142	165.682
250×250×12		12	44.472	57.015	6.876	3568.836	5812.612	1325.061	7.912	10.097	4.821	519.028	196.912

$300\times300\times10$	300	10	45.183	57.927	8.018	5286.252	8559.138	2013.367	9.553	12.155	5.896	659.298	240.481
$300\times300\times12$		12	53.832	69.015	8.124	6263.069	10167.49	2358.645	9.526	12.138	5.846	770.934	286.299
$300\times300\times14$		14	62.022	79.516	8.277	7182.256	11740.00	2624.502	9.504	12.150	5.745	867.737	330.629
$300\times300\times16$		16	70.312	90.144	8.392	8095.516	13279.70	2911.336	9.477	12.137	5.683	964.671	374.654
Specification	Dimensions mm		Theoretical weight kg/m	Sectional area cm^2	Center of gravity Y_0 cm	Moment of inertia cm^4			Radius of gyration cm			Section modulus cm^3	
$B_{JD}\times B_{JD}\times t_1$	B_{JD}	t_1				$I_x=I_y$	I_u	I_v	$r_x=r_y$	r_u	r_v	$W_{ymax}=W_{xmax}$	$W_{ymin}=W_{xmin}$
$80\times80\times4.0$	80	4.0	4.778	6.086	2.198	39.009	63.299	14.719	2.531	3.224	1.555	17.745	6.723
$80\times80\times5.0$		5.0	5.895	7.510	2.247	47.677	77.622	17.731	2.519	3.214	1.536	21.209	8.288
$100\times100\times4.0$	100	4.0	6.034	7.686	2.698	77.571	125.528	29.613	3.176	4.041	1.962	28.749	10.623
$100\times100\times5.0$		5.0	7.465	9.510	2.747	95.237	154.539	35.335	3.164	4.031	1.943	34.659	13.132
$150\times150\times6.0$	150	6.0	13.458	17.254	4.062	391.442	635.468	147.415	4.763	6.069	2.923	96.367	35.787

150×150×8.0		8.0	17.685	22.673	4.169	508.593	830.207	186.979	4.736	6.051	2.872	121.994	46.957
150×150×10		10	21.783	27.927	4.277	619.211	1016.638	221.785	4.709	6.034	2.818	144.777	57.746
200×200×6.0	200	6.0	18.138	23.254	5.310	945.753	1529.328	362.177	6.377	8.110	3.947	178.108	64.381
200×200×8.0		8.0	23.925	30.673	5.416	1237.149	2008.393	465.905	6.351	8.091	3.897	228.425	84.829
200×200×10		10	29.583	37.927	5.522	1516.787	2472.471	561.104	6.324	8.074	3.846	274.681	104.765
250×250×8.0	250	8.0	30.164	38.672	6.664	2453.559	3970.580	936.538	7.965	10.133	4.921	368.181	133.811
250×250×10		10	37.383	47.927	6.770	3020.384	4903.304	1137.464	7.939	10.114	4.872	446.142	165.682
250×250×12		12	44.472	57.015	6.876	3568.836	5812.612	1325.061	7.912	10.097	4.821	519.028	196.912
300×300×10	300	10	45.183	57.927	8.018	5286.252	8559.138	2013.367	9.553	12.155	5.896	659.298	240.481
300×300×12		12	53.832	69.015	8.124	6263.069	10167.49	2358.645	9.526	12.138	5.846	770.934	286.299
300×300×14		14	62.022	79.516	8.277	7182.256	11740.00	2624.502	9.504	12.150	5.745	867.737	330.629

300 × 300 × 16		16	70.312	90.144	8.392	8095.516	13279.70	2911.336	9.477	12.137	5.683	964.671	374.654

表 8 冷弯不等边角钢基本尺寸及截面参数

Table 8 Basic dimensions and section properties of cold-formed unequal angle steel

规格	尺寸 mm			理论重量 kg/m	截面面积 cm^2	重心 cm		惯性矩 cm^4				回转半径 cm				截面模数 cm^3			
$B_{JB} \times b_{JB} \times t_1$	B_{JB}	b_{JB}	t_1			Y_0	X_0	I_x	I_y	I_u	I_v	r_x	r_y	r_u	r_v	W_{xmax}	W_{xmin}	W_{ymax}	W_{ymin}
30 × 20 × 2.0	30	20	2.0	0.723	0.921	1.011	0.490	0.860	0.318	1.014	0.164	0.966	0.587	1.049	0.421	0.850	0.432	0.648	0.210
30 × 20 × 3.0			3.0	1.039	1.323	1.068	0.536	1.201	0.441	1.421	0.220	0.952	0.577	1.036	0.408	1.123	0.621	0.823	0.301
50 × 30 × 2.5	50	30	2.5	1.473	1.877	1.706	0.674	4.962	1.419	5.597	0.783	1.625	0.869	1.726	0.645	2.907	1.506	2.103	0.610
50 × 30 × 4.0			4.0	2.266	2.886	1.794	0.741	7.419	2.104	8.395	1.128	1.603	0.853	1.705	0.625	4.134	2.314	2.838	0.931
60 × 40 × 2.5	60	40	2.5	1.866	2.377	1.939	0.913	9.078	3.376	10.665	1.790	1.954	1.191	2.117	0.867	4.682	2.235	3.694	1.094
60 × 40 × 4.0			4.0	2.894	3.686	2.023	0.981	13.774	5.091	16.239	2.625	1.932	1.175	2.098	0.843	6.807	3.463	5.184	1.686
70 × 40 × 3.0	70	40	3.0	2.452	3.123	2.402	0.861	16.301	4.142	18.092	2.351	2.284	1.151	2.406	0.867	6.785	3.545	4.810	1.319

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70 × 40 × 4.0			4.0	3.208	4.086	2.461	0.905	21.038	5.317	23.381	2.973	2.268	1.140	2.391	0.853	8.546	4.635	5.872	1.718
80 × 50 × 3.0	80	50	3.0	2.923	3.723	2.631	1.096	25.450	8.086	29.092	4.444	2.614	1.473	2.795	1.092	9.670	4.740	7.371	2.071
80 × 50 × 4.0			4.0	3.836	4.886	2.688	1.141	33.025	10.449	37.810	5.664	2.599	1.462	2.781	1.076	12.281	6.218	9.151	2.708
100 × 60 × 3.0	100	60	3.0	3.629	4.623	3.297	1.259	49.787	14.347	56.038	8.096	3.281	1.761	3.481	1.323	15.100	7.427	11.389	3.026
100 × 60 × 4.0			4.0	4.778	6.086	3.354	1.304	64.939	18.640	73.177	10.402	3.266	1.749	3.467	1.307	19.356	9.772	14.289	3.969
100 × 60 × 5.0			5.0	5.895	7.510	3.412	1.349	79.395	22.707	89.566	12.536	3.251	1.738	3.453	1.291	23.263	12.053	16.830	4.882
150 × 120 × 6.0	150	120	6.0	12.054	15.454	4.500	2.962	362.949	211.071	475.645	98.375	4.846	3.696	5.548	2.532	80.655	34.567	71.260	23.354
150 × 120 × 8.0			8.0	15.813	20.273	4.615	3.064	470.343	273.077	619.416	124.003	4.817	3.670	5.528	2.473	101.916	45.291	89.124	30.559
150 × 120 × 10			10	19.443	24.927	4.732	3.167	571.010	331.066	755.971	146.105	4.786	3.644	5.507	2.421	120.670	55.611	104.536	37.481
200 × 160 × 10			10	24.463	33.927	6.115	4.051	1403.661	815.267	1846.212	372.716	6.432	4.902	7.377	3.314	229.544	101.092	201.251	68.229
Specif	Dimensions			The	Sec	Center of		Moment of inertia cm^4				Radius of gyration cm				Section modulus cm^3			

ication	mm			oretical weight kg/m	tional area cm^2	gravity cm													
$B_{JB} \times b_{JB} \times t_1$	B_{JB}	b_{JB}	t_1			Y_0	X_0	I_x	I_y	I_u	I_v	r_x	r_y	r_u	r_v	W_{xmax}	W_{xmin}	W_{ymax}	W_{ymin}
30 × 20 × 2.0	30	20	2.0	0.723	0.921	1.011	0.490	0.860	0.318	1.014	0.164	0.966	0.587	1.049	0.421	0.850	0.432	0.648	0.210
30 × 20 × 3.0			3.0	1.039	1.323	1.068	0.536	1.201	0.441	1.421	0.220	0.952	0.577	1.036	0.408	1.123	0.621	0.823	0.301
50 × 30 × 2.5	50	30	2.5	1.473	1.877	1.706	0.674	4.962	1.419	5.597	0.783	1.625	0.869	1.726	0.645	2.907	1.506	2.103	0.610
50 × 30 × 4.0			4.0	2.266	2.886	1.794	0.741	7.419	2.104	8.395	1.128	1.603	0.853	1.705	0.625	4.134	2.314	2.838	0.931
60 × 40 × 2.5	60	40	2.5	1.866	2.377	1.939	0.913	9.078	3.376	10.665	1.790	1.954	1.191	2.117	0.867	4.682	2.235	3.694	1.094
60 × 40 × 4.0			4.0	2.894	3.686	2.023	0.981	13.774	5.091	16.239	2.625	1.932	1.175	2.098	0.843	6.807	3.463	5.184	1.686
70 × 40 × 3.0	70	40	3.0	2.452	3.123	2.402	0.861	16.301	4.142	18.092	2.351	2.284	1.151	2.406	0.867	6.785	3.545	4.810	1.319
70 × 40 × 4.0			4.0	3.208	4.086	2.461	0.905	21.038	5.317	23.381	2.973	2.268	1.140	2.391	0.853	8.546	4.635	5.872	1.718
80 × 50 × 3.0	80	50	3.0	2.923	3.723	2.631	1.096	25.450	8.086	29.092	4.444	2.614	1.473	2.795	1.092	9.670	4.740	7.371	2.071

80 × 50 × 4.0			4.0	3.836	4.886	2.688	1.141	33.025	10.449	37.810	5.664	2.599	1.462	2.781	1.076	12.281	6.218	9.151	2.708
100 × 60 × 3.0	100	60	3.0	3.629	4.623	3.297	1.259	49.787	14.347	56.038	8.096	3.281	1.761	3.481	1.323	15.100	7.427	11.389	3.026
100 × 60 × 4.0			4.0	4.778	6.086	3.354	1.304	64.939	18.640	73.177	10.402	3.266	1.749	3.467	1.307	19.356	9.772	14.289	3.969
100 × 60 × 5.0			5.0	5.895	7.510	3.412	1.349	79.395	22.707	89.566	12.536	3.251	1.738	3.453	1.291	23.263	12.053	16.830	4.882
150 × 120 × 6.0	150	120	6.0	12.054	15.454	4.500	2.962	362.949	121.071	475.645	98.375	4.846	3.696	5.548	2.532	80.655	34.567	71.260	23.354
150 × 120 × 8.0			8.0	15.813	20.273	4.615	3.064	470.343	273.077	619.416	124.003	4.817	3.670	5.528	2.473	101.916	45.291	89.124	30.559
150 × 120 × 10			10	19.443	24.927	4.732	3.167	571.010	331.066	755.971	146.105	4.786	3.644	5.507	2.421	120.670	55.611	104.536	37.481
200 × 160 × 10			10	24.463	33.927	6.115	4.051	1403.661	815.267	1846.212	372.716	6.432	4.902	7.377	3.314	229.544	101.092	201.251	68.229

表 8 冷弯不等边角钢基本尺寸及截面参数(续)

Table 8 Basic dimensions and section properties of cold-formed unequal angle steel (cont.)

规格	尺寸 mm			理论重量 kg/m	截面面积 cm^2	重心 cm		惯性矩 cm^4				回转半径 cm				截面模数 cm^3			
$B_{JB} \times b_{JB} \times t_1$	B_{JB}	b_{JB}	t_1			Y_0	X_0	I_x	I_y	I_u	I_v	r_x	r_y	r_u	r_v	W_{xmax}	W_{xmin}	W_{ymax}	W_{ymin}

150×120×6.0	150	120	6.0	12.054	15.454	4.500	2.962	362.949	211.071	475.645	98.375	4.846	3.696	5.548	2.532	80.655	34.567	71.260	23.354
150×120×8.0			8.0	15.813	20.273	4.615	3.064	470.343	273.077	619.416	124.003	4.817	3.670	5.528	2.473	101.916	45.291	89.124	30.559
150×120×10			10	19.443	24.927	4.732	3.167	571.010	331.066	755.971	146.105	4.786	3.644	5.507	2.421	120.670	55.611	104.536	37.481
200×160×8.0	200	160	8.0	21.429	27.473	6.000	3.950	1147.099	667.089	1503.275	310.914	6.462	4.928	7.397	3.364	191.183	81.936	168.883	55.360
200×160×10			10	24.463	33.927	6.115	4.051	1403.661	815.267	1846.212	372.716	6.432	4.902	7.377	3.314	229.544	101.092	201.251	68.229
200×160×12			12	31.368	40.215	6.231	4.154	1648.244	956.261	2176.288	428.217	6.402	4.876	7.356	3.263	264.523	119.707	230.202	80.724
250×220×10	250	220	10	35.043	44.927	7.188	5.652	2894.335	2122.346	4102.990	913.691	8.026	6.873	9.556	4.510	402.662	162.494	375.504	129.823
250×220×12			12	41.664	53.415	7.299	5.756	3417.040	2504.222	4859.116	1062.097	7.998	6.847	9.538	4.459	468.151	193.042	435.063	154.163
250×220×14			14	47.826	61.316	7.466	5.904	3895.841	2856.311	5590.119	1162.033	7.971	6.825	9.548	4.353	521.811	222.188	483.793	177.455
300×260×12	3	2	1	50.0	64.	8	6	5	4	8	1	9	8	1	5	68	28	63	21

	00	60	2	88	215	.686	.638	970.485	218.566	347.648	841.403	.642	.105	1.402	.355	7.369	0.120	5.517	7.879
300 × 260 × 14			14	57.654	73.916	8.851	6.782	6835.520	4831.275	9625.709	2041.085	9.616	8.085	11.412	5.255	772.288	323.208	712.367	251.393
300 × 260 × 16			16	65.320	83.744	8.972	6.894	7697.062	5438.329	10876.951	2258.440	9.587	8.059	11.397	5.193	857.898	366.039	788.850	284.640
Specification	Dimensions mm			The oretical weight kg/m	Sectional area cm^2	Center of gravity cm		Moment of inertia cm^4				Radius of gyration cm				Section modulus cm^3			
$B_{JB} \times b_{JB} \times t_1$	B_{JB}	b_{JB}	t_1			Y_0	X_0	I_x	I_y	I_u	I_v	r_x	r_y	r_u	r_v	W_{xmax}	W_{xmin}	W_{ymax}	W_{ymin}
150 × 120 × 6.0	150	120	6.0	12.054	15.454	4.500	2.962	362.949	211.071	475.645	98.375	4.846	3.696	5.548	2.532	80.655	34.567	71.260	23.354
150 × 120 × 8.0			8.0	15.813	20.273	4.615	3.064	470.343	273.077	619.416	124.003	4.817	3.670	5.528	2.473	101.916	45.291	89.124	30.559
150 × 120 × 10			10	19.443	24.927	4.732	3.167	571.010	331.066	755.971	146.105	4.786	3.644	5.507	2.421	120.670	55.611	104.536	37.481
200 × 160 × 8.0	200	160	8.0	21.429	27.473	6.000	3.950	1147.099	667.089	1503.275	310.914	6.462	4.928	7.397	3.364	191.183	81.936	168.883	55.360
200 × 160 × 10			10	24.463	33.927	6.115	4.051	1403.661	815.267	1846.212	372.716	6.432	4.902	7.377	3.314	229.544	101.092	201.251	68.229

200 × 160 × 12			12	31.368	40.215	6.231	4.154	1648.244	956.261	2176.288	428.217	6.402	4.876	7.356	3.263	264.523	119.707	230.202	80.724
250 × 220 × 10	250	220	10	35.043	44.927	7.188	5.652	2894.335	2122.346	4102.990	913.691	8.026	6.873	9.556	4.510	402.662	162.494	375.504	129.823
250 × 220 × 12			12	41.664	53.415	7.299	5.756	3417.040	2504.222	4859.116	1062.097	7.998	6.847	9.538	4.459	468.151	193.042	435.063	154.163
250 × 220 × 14			14	47.826	61.316	7.466	5.904	3895.841	2856.311	5590.119	1162.033	7.971	6.825	9.548	4.353	521.811	222.188	483.793	177.455
300 × 260 × 12	300	260	12	50.088	64.215	8.686	6.638	5970.485	4218.566	8347.648	1841.403	9.642	8.105	11.402	5.355	687.369	280.120	635.517	217.879
300 × 260 × 14			14	57.654	73.916	8.851	6.782	6835.520	4831.275	9625.709	2041.085	9.616	8.085	11.412	5.255	772.288	323.208	712.367	251.393
300 × 260 × 16			16	65.320	83.744	8.972	6.894	7697.062	5438.329	10876.951	2258.440	9.587	8.059	11.397	5.193	857.898	366.039	788.850	284.640

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表 9 冷弯等边槽钢基本尺寸及截面参数

Table 9 Basic dimensions and section parameters of cold-formed equal channel steel

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规格	尺寸 mm			理论重量 kg/m	截面面积 cm^2	重心 X_0 cm	惯性矩 cm^4		回转半径 cm		截面模数 cm^3		
$H_{CD} \times B_{CD} \times t_1$	H_{CD}	B_{CD}	t_1				I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
20 × 10 × 1.5	20	10	1.5	0.401	0.511	0.324	0.281	0.047	0.741	0.305	0.281	0.146	0.070
20 × 10 × 2.0			2.0	0.505	0.643	0.349	0.330	0.058	0.716	0.300	0.330	0.165	0.089
50 × 30 × 3.0	50	30	2.0	1.604	2.043	0.922	8.093	1.872	1.990	0.957	3.237	2.029	0.901
50 × 30 × 3.0			3.0	2.314	2.947	0.975	11.119	2.632	1.942	0.994	4.447	2.699	1.299
50 × 50 × 3.0		50	3.0	3.256	4.147	1.850	17.755	10.834	2.069	1.616	7.102	5.855	3.440
60 × 30 × 2.5	60	30	2.5	2.150	2.740	0.883	14.380	2.400	2.310	0.940	4.890	2.710	1.130
80 × 40 × 2.5	80	40	2.5	2.940	3.740	1.132	36.700	5.920	3.130	1.260	9.180	5.230	2.060
80 × 40 × 3.0			3.0	3.480	4.340	1.159	42.660	6.930	3.100	1.250	10.670	5.980	2.440
100 × 40 × 3.0	100	40	2.5	3.330	4.240	1.013	62.070	6.370	3.830	1.230	12.410	6.290	2.130
100 × 40 × 3.0			3.0	3.950	5.030	1.039	72.440	7.470	3.800	1.220	14.490	7.190	2.520
100 × 50 × 3.0	100	50	3.0	4.433	5.647	1.398	87.275	14.030	3.931	1.576	17.455	10.031	3.896
100 × 50 × 4.0			4.0	5.788	7.373	1.448	111.051	18.045	3.880	1.564	22.210	12.458	5.081

120 × 40 × 2.5	120	40	2.5	3.720	4.740	0.919	95.920	6.720	4.500	1.190	15.990	7.320	2.180
120 × 40 × 3.0			3.0	4.420	5.630	0.944	112.280	7.900	4.470	1.190	18.710	8.370	2.580
140 × 50 × 3.0	140	50	3.0	5.360	6.830	1.187	191.530	15.520	5.300	1.510	27.360	13.080	4.070
140 × 50 × 3.5			3.5	6.200	7.890	1.211	218.880	17.790	5.270	1.500	31.270	14.690	4.700
140 × 60 × 3.0	140	60	3.0	5.846	7.447	1.527	220.977	25.929	5.447	1.865	31.568	16.970	5.798
140 × 60 × 4.0			4.0	7.672	9.773	1.575	284.429	33.601	5.394	1.854	40.632	21.324	7.594
140 × 60 × 5.0			5.0	9.436	12.021	1.623	343.066	40.823	5.342	1.842	49.009	25.145	9.327
160 × 60 × 3.0	160	60	3.0	6.300	8.030	1.432	300.870	26.900	6.120	1.830	37.610	18.790	5.890
160 × 60 × 3.5			3.5	7.200	9.290	1.456	344.940	30.920	6.090	1.820	43.120	21.230	6.810
200 × 80 × 4.0	200	80	4.0	10.812	13.773	1.966	821.120	83.686	7.721	2.464	82.112	42.564	13.869
Specification	Dimensions mm			Theoretical weight kg/	Sectional area cm^2	Center of gravity	Moment of inertia cm^4		Radius of gyration cm		Section modulus cm^3		

$H_{CD} \times B_{CD} \times t_1$	H_{CD}	B_{CD}	t_1	m		X_0 cm	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
20 × 10 × 1.5	20	10	1.5	0.401	0.511	0.324	0.281	0.047	0.741	0.305	0.281	0.146	0.070
20 × 10 × 2.0			2.0	0.505	0.643	0.349	0.330	0.058	0.716	0.300	0.330	0.165	0.089
50 × 30 × 3.0	50	30	2.0	1.604	2.043	0.922	8.093	1.872	1.990	0.957	3.237	2.029	0.901
50 × 30 × 3.0			3.0	2.314	2.947	0.975	11.119	2.632	1.942	0.994	4.447	2.699	1.299
50 × 50 × 3.0		50	3.0	3.256	4.147	1.850	17.755	10.834	2.069	1.616	7.102	5.855	3.440
60 × 30 × 2.5	60	30	2.5	2.150	2.740	0.883	14.380	2.400	2.310	0.940	4.890	2.710	1.130
80 × 40 × 2.5	80	40	2.5	2.940	3.740	1.132	36.700	5.920	3.130	1.260	9.180	5.230	2.060
80 × 40 × 3.0			3.0	3.480	4.340	1.159	42.660	6.930	3.100	1.250	10.670	5.980	2.440
100 × 40 × 3.0	100	40	2.5	3.330	4.240	1.013	62.070	6.370	3.830	1.230	12.410	6.290	2.130
100 × 40 × 3.0			3.0	3.950	5.030	1.039	72.440	7.470	3.800	1.220	14.490	7.190	2.520
100 × 50 × 3.0	100	50	3.0	4.433	5.647	1.398	87.275	14.030	3.931	1.576	17.455	10.031	3.896
100 × 50 × 4.0			4.0	5.788	7.373	1.448	111.051	18.045	3.880	1.564	22.210	12.458	5.081
120 × 40 × 2.5	120	40	2.5	3.720	4.740	0.919	95.920	6.720	4.500	1.190	15.99	7.320	2.180

											0		
120 × 40 × 3.0			3.0	4.420	5.630	0.944	112.280	7.900	4.470	1.190	18.710	8.370	2.580
140 × 50 × 3.0	140	50	3.0	5.360	6.830	1.187	191.530	15.520	5.300	1.510	27.360	13.080	4.070
140 × 50 × 3.5			3.5	6.200	7.890	1.211	218.880	17.790	5.270	1.500	31.270	14.690	4.700
140 × 60 × 3.0	140	60	3.0	5.846	7.447	1.527	220.977	25.929	5.447	1.865	31.568	16.970	5.798
140 × 60 × 4.0			4.0	7.672	9.773	1.575	284.429	33.601	5.394	1.854	40.632	21.324	7.594
140 × 60 × 5.0			5.0	9.436	12.021	1.623	343.066	40.823	5.342	1.842	49.009	25.145	9.327
160 × 60 × 3.0	160	60	3.0	6.300	8.030	1.432	300.870	26.900	6.120	1.830	37.610	18.790	5.890
160 × 60 × 3.5			3.5	7.200	9.290	1.456	344.940	30.920	6.090	1.820	43.120	21.230	6.810
200 × 80 × 4.0	200	80	4.0	10.812	13.773	1.966	821.120	83.686	7.721	2.464	82.112	42.564	13.869

表 9 冷弯等边槽钢基本尺寸及截面参数(续)

Table 9 Basic dimensions and section properties of cold-formed equal channel steel (continued)

外贸部邮箱:yuantai@yuantai-steel.com 电话:18222029592

规格	尺寸 mm			理论重量 kg/m	截面面积 cm^2	重心 X_0 cm	惯性矩 cm^4		回转半径 cm		截面模数 cm^3		
$H_{CD} \times B_{CD} \times t_1$	H_{CD}	B_{CD}	t_1				I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
200 × 80 × 5.0	200	80	5.0	13.361	17.021	2.013	1000.710	102.441	7.667	2.453	100.071	50.886	17.111
200 × 80 × 6.0			6.0	15.849	20.190	2.060	1170.516	120.388	7.614	2.441	117.051	58.436	20.267
250 × 130 × 6.0	250	130	6.0	22.703	29.107	3.630	2876.401	497.071	9.941	4.132	230.112	136.934	53.049
250 × 130 × 8.0			8.0	29.755	38.147	3.739	3687.729	642.760	9.832	4.105	295.018	171.907	69.405
300 × 150 × 6.0	300	150	6.0	26.915	34.507	4.062	4911.518	782.884	11.930	4.763	327.435	192.734	71.575
300 × 150 × 8.0			8.0	35.371	45.347	4.169	6337.148	1017.186	11.822	4.736	422.477	243.988	93.914
300 × 150 × 10			10	43.566	55.854	4.277	7660.498	1238.423	11.711	4.708	510.700	289.554	115.492
350 × 180 × 8.0	350	180	8.0	42.235	54.147	4.983	10488.540	1771.765	13.918	5.721	599.345	355.562	136.112
350 × 180 × 10			10	52.146	66.854	5.092	12749.074	2166.713	13.809	5.693	728.519	425.513	167.858
350 × 180 × 12			12	61.799	79.230	5.501	14	2	13.70	5.66	849.708	462.247	203.44

							869.892	542.823	0	5			2
400 × 200 × 10	400	200	10	59.166	75.854	5.522	18 932.658	3 033.575	15.79 9	6.32 4	946.633	549.362	209.53 0
400 × 200 × 12			12	70.223	90.030	5.630	22 159.727	3 569.548	15.68 9	6.29 7	1 107.986	634.022	248.40 3
400 × 200 × 14			14	80.366	103.033	5.791	24 854.034	4 051.828	15.53 1	6.27 1	1 242.702	699.677	285.15 9
450 × 220 × 10	450	220	10	66.186	84.854	5.956	26 844.416	4 103.714	17.78 7	6.95 4	1 193.085	689.005	255.77 9
450 × 220 × 12			12	78.647	100.830	6.063	31 506.135	4 838.741	17.67 6	6.92 7	1400.27 3	798.077	303.61 7
450 × 220 × 14			14	90.194	115.633	6.219	35 494.843	5 510.415	17.52 0	6.90 3	1 577.549	886.061	349.18 0
500 × 250 × 12	500	250	12	88.943	114.030	6.876	44 593.265	7 137.673	19.77 5	7.91 2	1 783.731	1038.05 6	393.82 4
500 × 250 × 14			14	102.206	131.033	7.032	50455.68 9	8152.93 8	19.62 3	7.88 8	2018.22 8	1 159.405	453.74 8
550 × 280 × 12	550	280	12	99.239	127.230	7.691	60 862.568	10 068.396	21.87 2	8.89 6	2 213.184	1 309.114	495.76 0
550 × 280 × 14			14	114.218	146.433	7.846	69 095.642	11 527.579	21.72 2	8.87 3	2 512.569	1 469.230	571.97 5

600 × 300 × 16	600	300	14	124.046	159.033	8.276	89 412.972	14 364.512	23.71 1	9.50 4	2 980.432	1 735.683	661.22 8
600 × 300 × 16			16	140.624	180.287	8.392	100 367.430	16 191.032	23.59 5	9.47 7	3 345.581	1 929.341	749.30 7
Specification	Dimensions mm			Theoretical weight kg/m	Sectional area cm^2	Center of gravity X_0 cm	Moment of inertia cm^4		Radius of gyration cm		Section modulus cm^3		
$H_{CD} \times B_{CD} \times t_1$	H_{CD}	B_{CD}	t_1				I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
200 × 80 × 5.0	200	80	5.0	13.361	17.021	2.013	1000.710	102.441	7.667	2.45 3	100.071	50.886	17.111
200 × 80 × 6.0			6.0	15.849	20.190	2.060	1 170.516	120.388	7.614	2.44 1	117.051	58.436	20.267
250 × 130 × 6.0	250	130	6.0	22.703	29.107	3.630	2876.401	497.071	9.941	4.13 2	230.112	136.934	53.049
250 × 130 × 8.0			8.0	29.755	38.147	3.739	3 687.729	642.760	9.832	4.10 5	295.018	171.907	69.405
300 × 150 × 6.0	300	150	6.0	26.915	34.507	4.062	4 911.518	782.884	11.93 0	4.76 3	327.435	192.734	71.575
300 × 150 × 8.0			8.0	35.371	45.347	4.169	6337.148	1 017.186	11.82 2	4.73 6	422.477	243.988	93.914
300 × 150 × 10			10	43.566	55.854	4.277	7 660.498	1 238.423	11.71 1	4.70 8	510.700	289.554	115.49 2

350 × 180 × 8.0	350	180	8.0	42.235	54.147	4.983	10 488.540	1 771.765	13.91 8	5.72 1	599.345	355.562	136.11 2
350 × 180 × 10			10	52.146	66.854	5.092	12 749.074	2 166.713	13.80 9	5.69 3	728.519	425.513	167.85 8
350 × 180 × 12			12	61.799	79.230	5.501	14 869.892	2 542.823	13.70 0	5.66 5	849.708	462.247	203.44 2
400 × 200 × 10	400	200	10	59.166	75.854	5.522	18 932.658	3 033.575	15.79 9	6.32 4	946.633	549.362	209.53 0
400 × 200 × 12			12	70.223	90.030	5.630	22 159.727	3 569.548	15.68 9	6.29 7	1 107.986	634.022	248.40 3
400 × 200 × 14			14	80.366	103.033	5.791	24 854.034	4 051.828	15.53 1	6.27 1	1 242.702	699.677	285.15 9
450 × 220 × 10	450	220	10	66.186	84.854	5.956	26 844.416	4 103.714	17.78 7	6.95 4	1 193.085	689.005	255.77 9
450 × 220 × 12			12	78.647	100.830	6.063	31 506.135	4 838.741	17.67 6	6.92 7	1400.27 3	798.077	303.61 7
450 × 220 × 14			14	90.194	115.633	6.219	35 494.843	5 510.415	17.52 0	6.90 3	1 577.549	886.061	349.18 0
500 × 250 × 12	500	250	12	88.943	114.030	6.876	44 593.265	7 137.673	19.77 5	7.91 2	1 783.731	1038.05 6	393.82 4
500 × 250 × 14			14	102.206	131.033	7.032	50455.68 9	8152.93 8	19.62 3	7.88 8	2018.22 8	1 159.405	453.74 8

550 × 280 × 12	550	280	12	99.239	127.230	7.691	60 862.568	10 068.396	21.87 2	8.89 6	2 213.184	1 309.114	495.76 0
550 × 280 × 14			14	114.218	146.433	7.846	69 095.642	11 527.579	21.72 2	8.87 3	2 512.569	1 469.230	571.97 5
600 × 300 × 16	600	300	14	124.046	159.033	8.276	89 412.972	14 364.512	23.71 1	9.50 4	2 980.432	1 735.683	661.22 8
600 × 300 × 16			16	140.624	180.287	8.392	100 367.430	16 191.032	23.59 5	9.47 7	3 345.581	1 929.341	749.30 7

表 10 冷弯不等边槽钢基本尺寸及截面参数

Table 10 Basic dimensions and section parameters of cold-formed unequal channel steel

规格	尺寸 mm				理论重量 kg/m	截面面积 cm^2	重心 cm		惯性矩 cm^4				回转半径 cm				截面模数 cm^3			
$H_{CB} \times B_{CB} \times b_{CB} \times t_1$	H_{CB}	B_{CB}	b_{CB}	t_1			X_0	Y_0	I_x	I_y	I_u	I_v	r_x	r_y	r_u	r_v	W_{xmax}	W_{xmin}	W_{ymax}	W_{ymin}
50 × 32 × 20 × 2.5	50	32	20	2.5	1.840	2.344	0.817	2.803	8.536	1.853	8.769	1.619	1.908	0.889	1.934	0.831	3.887	3.044	2.266	0.777
50 × 32 × 20 × 3.0				3.0	2.169	2.764	0.842	2.806	9.804	2.155	10.083	1.876	1.883	0.883	1.909	0.823	4.468	3.494	2.559	0.914
80 × 40 × 20 × 2.5	80	40	20	2.5	2.586	3.294	0.828	4.588	28.922	3.775	29.607	3.090	2.962	1.070	2.997	0.968	8.476	6.303	4.555	1.190
80 × 40 × 20 × 3.0				3.0	3.064	3.904	0.852	4.591	33.654	4.431	34.473	3.611	2.936	1.065	2.971	0.961	9.874	7.329	5.200	1.407

100×60×30×3.0	100	60	30	3.0	4.242	5.404	1.326	5.807	77.936	14.880	80.845	11.970	3.797	1.659	3.867	1.488	18.590	13.419	11.220	3.183
150×60×50×3.0	150		50		5.890	7.504	1.304	7.793	245.876	21.452	246.257	21.071	5.724	1.690	5.728	1.675	34.120	31.547	16.440	4.569
200×70×60×4.0	200	70	60	4.0	9.832	12.605	1.469	10.311	706.995	47.735	707.582	47.149	7.489	1.946	7.492	1.934	72.969	68.567	32.495	8.630
200×70×60×5.0				5.0	12.061	15.463	1.527	10.315	848.963	57.959	849.689	57.233	7.410	1.936	7.413	1.924	87.658	82.304	37.956	10.590
250×80×70×6.0	250	80	70	5.0	14.791	18.963	1.647	12.823	1616.200	92.101	1617.030	91.271	9.232	2.204	9.234	2.194	132.726	126.039	55.920	14.497
250×80×70×6.0				6.0	17.555	22.507	1.696	12.825	1891.478	108.125	1892.465	107.139	9.167	2.192	9.170	2.182	155.358	147.484	63.753	17.152
300×90×80×6.0	300	90	80	6.0	20.831	26.707	1.822	15.330	2322.869	161.726	3223.981	160.613	10.985	2.461	10.987	2.452	219.691	210.233	88.763	22.531
300×90×80×8.0				8.0	27.259	34.947	1.918	15.334	4115.825	207.555	4117.270	206.110	10.852	2.437	10.854	2.429	280.637	268.412	108.214	29.307
350×100×90×6.0	350	100	90	6.0	24.107	30.907	1.953	17.834	5064.502	230.463	5065.739	229.226	12.801	2.731	12.802	2.723	295.031	283.980	118.005	28.640

350 × 100 × 90 × 8.0				8.0	31.627	40.547	2.048	17.837	6506.423	297.082	6508.041	295.464	12.668	2.707	12.669	2.699	379.096	364.771	145.060	73.359
400 × 150 × 100 × 10	400	150	100	8.0	38.491	49.347	2.882	21.589	10787.704	763.610	10843.850	707.463	14.786	3.934	14.824	3.786	585.938	499.685	264.958	63.015
400 × 150 × 100 × 10				10	47.466	60.854	2.981	21.602	13071.444	931.170	13141.358	861.255	14.656	3.912	14.695	3.762	710.482	605.103	312.368	77.475
Specification	Dimensions mm				Theoretical weight kg/m	Sectional area cm^2	Center of gravity cm		Moment of inertia cm^4				Radius of gyration cm				Section modulus cm^3			
$H_{CB} \times B_{CB} \times b_{CB} \times t_1$	H_{CB}	B_{CB}	b_{CB}	t_1			X_0	Y_0	I_x	I_y	I_u	I_v	r_x	r_y	r_u	r_v	W_{xmax}	W_{xmin}	W_{ymax}	W_{ymin}
50 × 32 × 20 × 2.5	50	32	20	2.5	1.840	2.344	0.817	2.803	8.536	1.853	8.769	1.619	1.908	0.889	1.934	0.831	3.887	3.044	2.266	0.777
50 × 32 × 20 × 3.0				3.0	2.169	2.764	0.842	2.806	9.804	2.155	10.083	1.876	1.883	0.883	1.909	0.823	4.468	3.494	2.559	0.914
80 × 40 × 20 × 2.5	80	40	20	2.5	2.586	3.294	0.828	4.588	28.922	3.775	29.607	3.090	2.962	1.070	2.997	0.968	8.476	6.303	4.555	1.190
80 × 40 × 20 × 3.0				3.0	3.064	3.904	0.852	4.591	33.654	4.431	34.473	3.611	2.936	1.065	2.971	0.961	9.874	7.329	5.200	1.407
100 × 60 × 30 × 3.0	100	60	30	3.0	4.242	5.404	1.326	5.807	77.936	14.880	80.845	11.970	3.797	1.659	3.867	1.488	18.590	13.419	11.220	3.183

150×60×50×3.0	150		50		5.890	7.504	1.304	7.793	245.876	21.452	246.257	21.071	5.724	1.690	5.728	1.675	34.120	31.547	16.440	4.569
200×70×60×4.0	200	70	60	4.0	9.832	12.605	1.469	10.311	706.995	47.735	707.582	47.149	7.489	1.946	7.492	1.934	72.969	68.567	32.495	8.630
200×70×60×5.0				5.0	12.061	15.463	1.527	10.315	848.963	57.959	849.689	57.233	7.410	1.936	7.413	1.924	87.658	82.304	37.956	10.590
250×80×70×6.0	250	80	70	5.0	14.791	18.963	1.647	12.823	1616.200	92.101	1617.030	91.271	9.232	2.204	9.234	2.194	132.726	126.039	55.920	14.497
250×80×70×6.0				6.0	17.555	22.507	1.696	12.825	1891.478	108.125	1892.465	107.139	9.167	2.192	9.170	2.182	155.358	147.484	63.753	17.152
300×90×80×6.0	300	90	80	6.0	20.831	26.707	1.822	15.330	2322.869	161.726	3223.981	160.613	10.985	2.461	10.987	2.452	219.691	210.233	88.763	22.531
300×90×80×8.0				8.0	27.259	34.947	1.918	15.334	4115.825	207.555	4117.270	206.110	10.852	2.437	10.854	2.429	280.637	268.412	108.214	29.307
350×100×90×6.0	350	100	90	6.0	24.107	30.907	1.953	17.834	5064.502	230.463	5065.739	229.226	12.801	2.731	12.802	2.723	295.031	283.980	118.005	28.640
350×100×90×8.0				8.0	31.627	40.547	2.048	17.837	6506.423	297.082	6508.04	295.464	12.668	2.707	12.669	2.699	379.096	364.771	145.060	37.359

											1								
400 × 150 × 100 × 10	400	150	100	8.0	38.491	49.347	2.882	21.589	10787.704	763.610	10843.850	707.463	14.786	3.934	14.824	3.786	585.938	499.685	264.958	63.015
400 × 150 × 100 × 10				10	47.466	60.854	2.981	21.602	13071.444	931.170	13141.358	861.255	14.656	3.912	14.695	3.762	710.482	605.103	312.368	77.475

表 10 冷弯不等边槽钢基本尺寸及截面参数 (续)

Table 10 Basic dimensions and section properties of cold-formed unequal channel steel (cont.)

规格	尺寸 mm				理论重量 kg/m	截面面积 cm^2	重心 cm		惯性矩 cm^4				回转半径 cm				截面模数 cm^3			
$H_{CB} \times B_{CB} \times b_{CB} \times t_1$	H_{CB}	B_{CB}	b_{CB}	t_1			X_0	Y_0	I_x	I_y	I_u	I_v	r_x	r_y	r_u	r_v	W_{xmax}	W_{xmin}	W_{ymax}	W_{ymin}
450 × 200 × 150 × 10	450	200	150	10	59.166	75.854	4.402	23.950	2328.149	337.132	2430.862	234.420	17.157	5.551	17.196	5.427	1060.720	932.282	530.925	149.835
450 × 200 × 150 × 12				12	70.223	90.030	4.504	23.960	6133,270	750.039	6256.075	627.235	17.037	5.527	17.077	5.402	1242.076	1090.704	610.577	177.468
500 × 250 × 200 × 12	500	250	200	12	84.263	108.030	6.008	26.355	40821,	5579.	40985.4	5415.752	19.439	7.186	19.478	7.080	1726.453	1548.928	928.630	293.766

									990	208	43								
500 × 250 × 200 × 14				14	96.746	124.033	6.159	26.371	46087.838	6369.068	46277.561	6179.346	19.276	7.166	19.306	7.058	1950.478	1747.671	1034.107	338.043
550 × 300 × 250 × 14	550	300	250	14	113.126	145.033	7.714	28.794	67847.216	11314.348	68086.256	11075.308	21.629	8.832	21.667	8.739	2588.995	2356.297	1466.729	507.689
550 × 300 × 250 × 16				16	128.144	164.287	7.831	28.800	76016.861	12738.984	76288.341	12467.503	21.511	8.806	21.549	8.711	2901.407	2639.474	1626.738	574.631
Specification	Dimensions mm				The oretical weight kg/m	Sectional area cm^2	Center of gravity cm		Moment of inertia cm^4				Radius of gyration cm				Section modulus cm^3			
$H_{CB} \times B_{CB} \times b_{CB} \times t_1$	H_{CB}	B_{CB}	b_{CB}	t_1			X_0	Y_0	I_x	I_y	I_u	I_v	r_x	r_y	r_u	r_v	W_{xmax}	W_{xmin}	W_{ymax}	W_{ymin}
450 × 200 × 150 × 10	450	200	150	10	59.166	75.854	4.402	23.950	22328.149	2337.132	22430.862	2234.420	17.157	5.551	17.196	5.427	1060.720	932.282	530.925	149.835
450 × 200 × 150 × 12				12	70.223	90.030	4.504	23.960	26133,	2750.	26256.0	2627.235	17.037	5.527	17.077	5.402	1242.076	1090.704	610.577	177.468

									270	039	75								
500 × 250 × 200 × 12	500	250	200	12	84.263	108.030	6.008	26.355	40821,990	5579.208	40985.443	5415.752	19.439	7.186	19.478	7.080	1726.453	1548.928	928.630	293.766
500 × 250 × 200 × 14				14	96.746	124.033	6.159	26.371	46087.838	6369.068	46277.561	6179.346	19.276	7.166	19.306	7.058	1950.478	1747.671	1034.107	338.043
550 × 300 × 250 × 14	550	300	250	14	113.126	145.033	7.714	28.794	67847.216	11314.348	68086.256	11075.308	21.629	8.832	21.667	8.739	2588.995	2356.297	1466.729	507.689
550 × 300 × 250 × 16				16	128.144	164.287	7.831	28.800	76016.861	12738.984	76288.341	12467.503	21.511	8.806	21.549	8.711	2901.407	2639.474	1626.738	574.631

表 11 冷弯内卷边槽钢基本尺寸及截面参数

Table 11 Basic dimensions and section properties of cold-formed inwardly-lipped channel steel

规格	尺寸 mm				理论重量 kg/m	截面面积 cm^2	重心 cm	惯性矩 cm^4		回转半径 cm		截面模数 cm^3		
$H_{CN} \times B_{CN} \times C_{CN} \times t_1$	H_{CN}	B_{CN}	C_{CN}	t_1			X_0	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
60 × 30 × 10 × 2.5	60	30	10	2.5	2.363	3.010	1.043	16.009	3.353	2.306	1.055	5.336	3.214	1.713
60 × 30 × 10 × 3.0				3.0	2.743	3.495	1.036	18.077	3.688	2.27	1.02	6.025	3.559	1.87

										4	7			8
80 × 40 × 15 × 2.0	80	40	15	2.0	2.720	3.470	1.452	34.160	7.790	3.140	1.500	8.540	5.360	3.060
100 × 50 × 15 × 2.5	100	50	15	2.5	4.110	5.230	1.706	81.340	17.190	3.940	1.810	16.270	10.080	5.220
100 × 50 × 20 × 2.5	100	50	20	2.5	4.325	5.510	1.853	84.932	19.889	3.925	1.899	16.986	10.730	6.321
100 × 50 × 20 × 3.0				3.0	5.098	6.495	1.848	98.560	22.802	3.895	1.873	19.712	12.333	7.235
120 × 50 × 20 × 2.5	120	50	20	2.5	4.700	5.980	1.706	129.400	20.960	4.560	1.870	21.570	12.280	6.360
120 × 60 × 20 × 3.0	120	60	20	3.0	6.010	7.650	2.106	170.680	37.360	4.720	2.210	28.450	17.740	9.590
Specification	Dimensions mm				Theoretical weight kg/m	Sectional area cm^2	Center of gravity cm	Moment of inertia cm^4		Radius of gyration cm		Section modulus cm^3		
$H_{CN} \times B_{CN} \times C_{CN} \times t_1$	H_{CN}	B_{CN}	C_{CN}	t_1			X_0	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
60 × 30 × 10 × 2.5	60	30	10	2.5	2.363	3.010	1.043	16.009	3.353	2.306	1.055	5.336	3.214	1.713
60 × 30 × 10 × 3.0				3.0	2.743	3.495	1.036	18.077	3.688	2.274	1.027	6.025	3.559	1.878

80 × 40 × 15 × 2.0	80	40	15	2.0	2.720	3.470	1.452	34.160	7.790	3.140	1.500	8.540	5.360	3.060
100 × 50 × 15 × 2.5	100	50	15	2.5	4.110	5.230	1.706	81.340	17.190	3.940	1.810	16.270	10.080	5.220
100 × 50 × 20 × 2.5	100	50	20	2.5	4.325	5.510	1.853	84.932	19.889	3.925	1.899	16.986	10.730	6.321
100 × 50 × 20 × 3.0				3.0	5.098	6.495	1.848	98.560	22.802	3.895	1.873	19.712	12.333	7.235
120 × 50 × 20 × 2.5	120	50	20	2.5	4.700	5.980	1.706	129.400	20.960	4.560	1.870	21.570	12.280	6.360
120 × 60 × 20 × 3.0	120	60	20	3.0	6.010	7.650	2.106	170.680	37.360	4.720	2.210	28.450	17.740	9.590

表 11 冷弯内卷边槽钢基本尺寸及截面参数(续)

Table 11 Basic dimensions and section properties of cold-formed inwardly-lipped channel steel (continued)

规格	尺寸 mm				理论重量 kg/m	截面面积 cm^2	重心 cm	惯性矩 cm^4		回转半径 cm		截面模数 cm^3		
$H_{CN} \times B_{CN} \times C_{CN} \times t_1$	H_{CN}	B_{CN}	C_{CN}	t_1			X_0	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
120 × 60 × 20 × 3.0	120	60	20	3.0	6.010	7.650	2.106	170.680	37.360	4.720	2.210	28.450	17.740	9.590
140 × 50 × 20 × 2.0	140	50	20	2.0	4.140	5.270	1.590	154.030	18.560	5.410	1.880	22.000	11.680	5.440

140×60×20×2.5	140	50	20	2.5	5.090	6.480	1.580	186.780	22.110	5.390	1.850	26.680	13.960	6.470
140×60×20×2.5	140	60	20	2.5	5.503	7.010	1.974	212.137	34.786	5.500	2.227	30.305	17.615	8.642
140×60×20×3.0				3.0	6.511	8.295	1.969	248.006	40.132	5.467	2.199	35.429	20.379	9.956
160×60×20×2.0	160	60	20	2.0	4.760	6.070	1.850	236.590	29.990	6.240	2.220	29.570	16.190	7.230
160×60×20×2.5				2.5	5.870	7.480	1.850	288.130	35.960	6.210	2.190	36.020	19.470	8.660
160×70×20×3.0	160	70	20	3.0	7.420	9.450	2.224	373.640	60.420	6.290	2.530	46.710	27.170	12.650
180×60×20×3.0	180	60	20	3.0	7.453	9.495	1.739	449.695	43.611	6.881	2.143	49.966	25.073	10.235
180×70×20×3.0		70			7.924	10.095	2.106	496.693	63.712	7.014	2.512	55.188	30.248	13.019
180×70×20×2.0	180	70	20	2.0	5.390	6.870	2.110	343.930	45.180	7.080	2.570	38.210	21.370	9.250
180×70×20×2.5	180	70	20	2.5	6.660	9.480	2.110	420.200	54.420	7.040	2.530	46.690	25.820	11.120
200×60×20×3.0	200	60	20	3.0	7.924	10.095	1.644	578.425	45.041	7.569	2.112	57.842	27.382	10.342

200 × 70 × 20 × 2.0	200	70	20	2.0	5.710	7.270	2.000	440.040	46.710	7.780	2.540	44.000	23.320	9.350
200 × 70 × 20 × 2.5	200	70	20	2.5	7.050	8.980	2.000	538.210	56.270	7.740	2.500	53.820	28.180	11.250
200 × 70 × 20 × 3.0	200	70	20	3.0	8.395	10.695	1.996	636.643	65.883	7.715	2.481	63.664	32.999	13.167
220 × 75 × 20 × 2.0	220	75	20	2.0	6.180	7.870	2.080	574.450	56.880	8.540	2.690	52.220	27.350	10.500
220 × 75 × 20 × 2.5	220	75	20	2.5	7.640	9.730	2.070	703.760	68.660	8.500	2.660	63.980	33.110	12.650
Specification	Dimensions mm				Theoretical weight kg/m	Sectional area cm^2	Center of gravity cm	Moment of inertia cm^4		Radius of gyration cm		Section modulus cm^3		
$H_{CN} \times B_{CN} \times C_{CN} \times t_1$	H_{CN}	B_{CN}	C_{CN}	t_1			X_0	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
120 × 60 × 20 × 3.0	120	60	20	3.0	6.010	7.650	2.106	170.680	37.360	4.720	2.210	28.450	17.740	9.590
140 × 50 × 20 × 2.0	140	50	20	2.0	4.140	5.270	1.590	154.030	18.560	5.410	1.880	22.000	11.680	5.440
140 × 60 × 20 × 2.5	140	50	20	2.5	5.090	6.480	1.580	186.780	22.110	5.390	1.850	26.680	13.960	6.470

140×60×20×2.5	140	60	20	2.5	5.503	7.010	1.974	212.137	34.786	5.500	2.227	30.305	17.615	8.642
140×60×20×3.0				3.0	6.511	8.295	1.969	248.006	40.132	5.467	2.199	35.429	20.379	9.956
160×60×20×2.0	160	60	20	2.0	4.760	6.070	1.850	236.590	29.990	6.240	2.220	29.570	16.190	7.230
160×60×20×2.5				2.5	5.870	7.480	1.850	288.130	35.960	6.210	2.190	36.020	19.470	8.660
160×70×20×3.0	160	70	20	3.0	7.420	9.450	2.224	373.640	60.420	6.290	2.530	46.710	27.170	12.650
180×60×20×3.0	180	60	20	3.0	7.453	9.495	1.739	449.695	43.611	6.881	2.143	49.966	25.073	10.235
180×70×20×3.0		70			7.924	10.095	2.106	496.693	63.712	7.014	2.512	55.188	30.248	13.019
180×70×20×2.0	180	70	20	2.0	5.390	6.870	2.110	343.930	45.180	7.080	2.570	38.210	21.370	9.250
180×70×20×2.5	180	70	20	2.5	6.660	9.480	2.110	420.200	54.420	7.040	2.530	46.690	25.820	11.120
200×60×20×3.0	200	60	20	3.0	7.924	10.095	1.644	578.425	45.041	7.569	2.112	57.842	27.382	10.342
200×70×20×2.0	200	70	20	2.0	5.710	7.270	2.000	440.040	46.710	7.780	2.540	44.000	23.320	9.350

200 × 70 × 20 × 2.5	200	70	20	2.5	7.050	8.980	2.000	538.210	56.270	7.740	2.500	53.820	28.180	11.250
200 × 70 × 20 × 3.0	200	70	20	3.0	8.395	10.695	1.996	636.643	65.883	7.715	2.481	63.664	32.999	13.167
220 × 75 × 20 × 2.0	220	75	20	2.0	6.180	7.870	2.080	574.450	56.880	8.540	2.690	52.220	27.350	10.500
220 × 75 × 20 × 2.5	220	75	20	2.5	7.640	9.730	2.070	703.760	68.660	8.500	2.660	63.980	33.110	12.650

表 11 冷弯内卷边槽钢基本尺寸及截面参数(续)

Table 11 Basic dimensions and section properties of cold-formed inwardly-lipped channel steel (continued)

规格	尺寸 mm				理论重量 kg/m	截面面积 cm^2	重心 cm	惯性矩 cm^4		回转半径 cm		截面模数 cm^3		
$H_{CN} \times B_{CN} \times C_{CN} \times t_1$	H_{CN}	B_{CN}	C_{CN}	t_1			X_0	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
250 × 40 × 15 × 3.0	250	40	15	3.0	7.924	10.095	0.790	773.495	14.809	8.753	1.211	61.879	18.734	4.614
300 × 40 × 15 × 3.0	300	40			9.102	11.595	0.707	1231.616	15.356	10.306	1.150	82.107	21.700	4.664
400 × 50 × 15 × 3.0	400	50			11.928	15.195	0.783	2837.843	28.888	13.666	1.378	141.892	36.879	6.851
450 × 70 × 30 × 6.0	450	70	30	6.0	28.092	36.015	1.421	8796.963	159.703	15.629	2.106	390.976	112.388	28.626

450 × 70 × 30 × 8.0				8.0	36.421	46.693	1.429	11030.645	182.734	15.370	1.978	490.251	127.875	32.801
500 × 100 × 40 × 6.0	500	100	40	6.0	34.176	43.815	2.297	14275.246	479.809	18.050	3.309	571.010	208.885	62.289
500 × 100 × 40 × 8.0				8.0	44.533	57.093	2.293	18150.796	578.026	17.830	3.182	726.032	252.083	75.000
500 × 100 × 40 × 10				10	54.372	69.708	2.289	21594.366	648.778	17.601	3.051	863.775	283.433	84.137
550 × 120 × 50 × 8.0	550	120	50	8.0	51.397	65.893	2.940	26259.069	1069.797	19.963	4.029	954.875	363.877	118.079
550 × 120 × 50 × 10				10	62.952	80.708	2.933	31484.498	1229.103	19.751	3.902	1144.891	419.060	135.558
550 × 120 × 50 × 12				12	73.990	94.859	2.926	36186.756	1349.879	19.531	3.772	1315.882	461.339	148.763
600 × 150 × 60 × 12	600	150	60	12	86.158	110.459	3.902	54745.539	2755.348	21.852	4.994	1824.851	706.137	248.274
600 × 150 × 60 × 14				14	97.395	124.865	3.840	57733.224	2867.742	21.503	4.792	1924.441	746.808	256.966
600 × 150 × 60 × 16				16	109.025	139.775	3.819	63178.379	3010.816	21.260	4.641	2105.946	788.378	269.280
Specification	Dimensions mm				Theoretical weight	Cross-sectional	Center of	Moment of inertia cm^4		Radius of gyration cm		Section modulus cm^3		

					kg/m	area cm^2	gravity cm							
$H_{CN} \times B_{CN} \times C_{CN} \times t_1$	H_{CN}	B_{CN}	C_{CN}	t_1			X_0	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
250 × 40 × 15 × 3.0	250	40	15	3.0	7.924	10.095	0.790	773.495	14.809	8.753	1.211	61.879	18.734	4.614
300 × 40 × 15 × 3.0	300	40			9.102	11.595	0.707	1231.616	15.356	10.306	1.150	82.107	21.700	4.664
400 × 50 × 15 × 3.0	400	50			11.928	15.195	0.783	2837.843	28.888	13.666	1.378	141.892	36.879	6.851
450 × 70 × 30 × 6.0	450	70	30	6.0	28.092	36.015	1.421	8796.963	159.703	15.629	2.106	390.976	112.388	28.626
450 × 70 × 30 × 8.0				8.0	36.421	46.693	1.429	11030.645	182.734	15.370	1.978	490.251	127.875	32.801
500 × 100 × 40 × 6.0	500	100	40	6.0	34.176	43.815	2.297	14275.246	479.809	18.050	3.309	571.010	208.885	62.289
500 × 100 × 40 × 8.0				8.0	44.533	57.093	2.293	18150.796	578.026	17.830	3.182	726.032	252.083	75.000
500 × 100 × 40 × 10				10	54.372	69.708	2.289	21594.366	648.778	17.601	3.051	863.775	283.433	84.137
550 × 120 × 50 × 8.0	550	120	50	8.0	51.397	65.893	2.940	26259.069	1069.797	19.963	4.029	954.875	363.877	118.079

550 × 120 × 50 × 10				10	62.952	80.708	2.933	31484.498	1229.103	19.751	3.902	1144.891	419.060	135.558
550 × 120 × 50 × 12				12	73.990	94.859	2.926	36186.756	1349.879	19.531	3.772	1315.882	461.339	148.763
600 × 150 × 60 × 12	600	150	60	12	86.158	110.459	3.902	54745.539	2755.348	21.852	4.994	1824.851	706.137	248.274
600 × 150 × 60 × 14				14	97.395	124.865	3.840	57733.224	2867.742	21.503	4.792	1924.441	746.808	256.966
600 × 150 × 60 × 16				16	109.025	139.775	3.819	63178.379	3010.816	21.260	4.641	2105.946	788.378	269.280

表 12 冷弯外卷边槽钢基本尺寸及截面参数

Table 12 Basic dimensions and section properties of cold-formed lipped channel steel

规格	尺寸 mm				理论重量 kg/m	截面面积 cm^2	重心 cm	惯性矩 cm^4		回转半径 cm		截面模数 cm^3		
$H_{CW} \times B_{CW} \times C_{CW} \times t_1$	H_{cw}	B_{CW}	C_{CW}	t_1			X_0	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
30 × 30 × 16 × 2.5	30	30	16	2.5	2.009	2.560	1.526	6.010	3.126	1.532	1.105	2.109	2.047	2.122
50 × 20 × 15 × 3.0	50	20	15	3.0	2.272	2.895	0.823	13.863	1.539	2.188	0.729	3.746	1.869	1.309
60 × 25 × 32 × 2.5	60	25	32	2.5	3.030	3.860	1.279	42.431	3.959	3.315	1.012	7.131	3.095	3.243

60×25×32×3.0	60	25	32	3.0	3.544	4.515	1.279	49.003	4.438	3.294	0.991	8.305	3.469	3.635
80×40×20×4.0	80	40	20	4.0	5.296	6.746	1.573	79.594	14.537	3.434	1.467	14.213	9.241	5.900
100×30×15×3.0	100	30	15	3.0	3.921	4.995	0.932	77.669	5.575	3.943	1.056	12.527	5.979	2.696
150×40×20×4.0	150	40	20	4.0	7.497	9.611	1.176	325.197	18.311	5.817	1.380	35.736	15.571	6.484
150×40×20×5.0				5.0	8.913	11.427	1.158	370.697	19.357	5.696	1.302	41.189	16.716	6.811
200×50×30×4.0	200	50	30	4.0	10.305	13.211	1.525	834.155	44.255	7.946	1.830	66.203	29.020	12.735
200×50×30×5.0				5.0	12.423	15.927	1.511	976.969	49.376	7.832	1.761	78.158	32.678	10.999
250×60×40×5.0	250	60	40	5.0	15.933	20.427	1.856	2029.828	99.403	9.968	2.206	126.864	53.558	23.987
250×60×40×6.0				6.0	18.732	24.015	1.853	2342.687	111.005	9.877	2.150	147.339	59.906	26.768
300×70×50×6.0	300	70	50	6.0	22.944	29.415	2.195	4246.582	197.478	12.015	2.591	218.896	89.967	41.098
300×70×50×8.0				8.0	29.557	37.893	2.191	5304.784	233.118	11.832	2.480	276.291	106.398	48.475

350 × 80 × 60 × 6.0	350	80	60	6.0	27.156	34.815	2.533	6 973.923	319.32 9	14.15 3	3.02 9	304.53 8	126.06 8	58.41 0
350 × 80 × 60 × 8.0				8.0	35.173	45.093	2.475	8 804.763	365.03 8	13.97 3	2.84 5	387.87 5	147.49 0	66.07 0
400 × 90 × 70 × 8.0	400	90	70	8.0	40.789	52.293	2.773	13 577.846	548.60 3	16.11 4	3.23 9	518.23 8	197.83 7	88.10 1
Specification	Dimensions mm				Theoretical weight kg/m	Sectional area cm^2	Center of gravity cm	Moment of inertia cm^4		Radius of gyration cm		Section modulus cm^3		
$H_{CW} \times B_{CW} \times C_{CW} \times t_1$	H_{cw}	B_{CW}	C_{CW}	t_1			X_0	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
30 × 30 × 16 × 2.5	30	30	16	2.5	2.009	2.560	1.526	6.010	3.126	1.532	1.10 5	2.109	2.047	2.122
50 × 20 × 15 × 3.0	50	20	15	3.0	2.272	2.895	0.823	13.863	1.539	2.188	0.72 9	3.746	1.869	1.309
60 × 25 × 32 × 2.5	60	25	32	2.5	3.030	3.860	1.279	42.431	3.959	3.315	1.01 2	7.131	3.095	3.243
60 × 25 × 32 × 3.0	60	25	32	3.0	3.544	4.515	1.279	49.003	4.438	3.294	0.99 1	8.305	3.469	3.635
80 × 40 × 20 × 4.0	80	40	20	4.0	5.296	6.746	1.573	79.594	14.537	3.434	1.46 7	14.213	9.241	5.900

100×30×15×3.0	100	30	15	3.0	3.921	4.995	0.932	77.669	5.575	3.943	1.056	12.527	5.979	2.696
150×40×20×4.0	150	40	20	4.0	7.497	9.611	1.176	325.197	18.311	5.817	1.380	35.736	15.571	6.484
150×40×20×5.0				5.0	8.913	11.427	1.158	370.697	19.357	5.696	1.302	41.189	16.716	6.811
200×50×30×4.0	200	50	30	4.0	10.305	13.211	1.525	834.155	44.255	7.946	1.830	66.203	29.020	12.735
200×50×30×5.0				5.0	12.423	15.927	1.511	976.969	49.376	7.832	1.761	78.158	32.678	10.999
250×60×40×5.0	250	60	40	5.0	15.933	20.427	1.856	2029.828	99.403	9.968	2.206	126.864	53.558	23.987
250×60×40×6.0				6.0	18.732	24.015	1.853	2342.687	111.005	9.877	2.150	147.339	59.906	26.768
300×70×50×6.0	300	70	50	6.0	22.944	29.415	2.195	4246.582	197.478	12.015	2.591	218.896	89.967	41.098
300×70×50×8.0				8.0	29.557	37.893	2.191	5304.784	233.118	11.832	2.480	276.291	106.398	48.475
350×80×60×6.0	350	80	60	6.0	27.156	34.815	2.533	6973.923	319.329	14.153	3.029	304.538	126.068	58.410
350×80×60×8.0				8.0	35.173	45.093	2.475	8804.763	365.038	13.973	2.845	387.875	147.490	66.070

400 × 90 × 70 × 8.0	400	90	70	8.0	40.789	52.293	2.773	13 577.846	548.60 3	16.11 4	3.23 9	518.23 8	197.83 7	88.10 1

表 12 冷弯外卷边槽钢基本尺寸及截面参数(续)

Table 12 Basic dimensions and section properties of cold-formed lipped channel steel (cont.)

规格	尺寸 mm				理论重量 kg/m	截面面积 cm^2	重心 cm	惯性矩 cm^4		回转半径 cm		截面模数 cm^3		
$H_{CW} \times B_{CW} \times C_{CW} \times t_1$	H_{cw}	B_{CW}	C_{CW}	t_1			X_0	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
400 × 90 × 70 × 10	400	90	70	10	49.692	63.708	2.86 8	16 171.507	672.619	15.9 32	3.24 9	621.98 1	234.52 5	109.69 0
450 × 100 × 80 × 8.0	450	100	80	8.0	46.405	59.493	3.20 6	19 821.232	855.920	18.2 53	3.79 3	667.38 2	266.97 4	125.98 2
450 × 100 × 80 × 10				10	56.712	72.708	3.20 5	23 751.957	987.987	18.0 74	3.68 6	805.15 1	308.26 4	145.39 9
500 × 150 × 90 × 10	500	150	90	10	69.972	89.708	5.00 3	38 191.923	2907.97 5	20.6 33	5.69 4	1 157.331	581.24 6	290.88 5
500 × 150 × 90 × 12				12	82.414	105.65 9	4.99 2	44 274.544	3291.81 6	20.4 70	5.58 2	1 349.834	659.41 8	328.91 8
550 × 200 × 100 × 12	550	200	100	12	98.326	126.05 9	6.56 4	66 449.957	6 427.780	22.9 59	7.14 1	1830.5 77	979.24 7	478.40 0
550 × 200 × 100 × 14				14	111.591	143.06 5	6.81 5	74080.3 84	7829.69 9	22.7 55	7.39 8	2052.0 88	1148.8 92	593.83 4

600 × 250 × 150 × 14	600	250	150	14	138.891	178.065	9.717	125 436.851	17 163.911	26.541	9.818	2876.992	1766.380	1123.072
600 × 250 × 150 × 16				16	156.449	200.575	9.700	139 827.681	18879.946	26.403	9.702	3221.836	1946.386	1 233,983
Specification	Dimensions mm				Theoretical weight kg/m	Sectional area cm^2	Center of gravity cm	Moment of inertia cm^4		Radius of gyration cm		Section modulus cm^3		
$H_{CW} \times B_{CW} \times C_{CW} \times t_1$	H_{cw}	B_{CW}	C_{CW}	t_1			X_0	I_x	I_y	r_x	r_y	W_x	W_{ymax}	W_{ymin}
400 × 90 × 70 × 10	400	90	70	10	49.692	63.708	2.868	16 171.507	672.619	15.932	3.249	621.981	234.525	109.690
450 × 100 × 80 × 8.0	450	100	80	8.0	46.405	59.493	3.206	19 821.232	855.920	18.253	3.793	667.382	266.974	125.982
450 × 100 × 80 × 10				10	56.712	72.708	3.205	23 751.957	987.987	18.074	3.686	805.151	308.264	145.399
500 × 150 × 90 × 10	500	150	90	10	69.972	89.708	5.003	38 191.923	2907.975	20.633	5.694	1 157.331	581.246	290.885
500 × 150 × 90 × 12				12	82.414	105.659	4.992	44 274.544	3291.816	20.470	5.582	1 349.834	659.418	328.918
550 × 200 × 100 × 12	550	200	100	12	98.326	126.059	6.564	66 449.957	6 427.780	22.959	7.141	1830.577	979.247	478.400

550 × 200 × 100 × 14				14	111.591	143.065	6.815	74080.384	7829.699	22.755	7.398	2052.088	1148.892	593.834
600 × 250 × 150 × 14	600	250	150	14	138.891	178.065	9.717	125436.851	17163.911	26.541	9.818	2876.992	1766.380	1123.072
600 × 250 × 150 × 16				16	156.449	200.575	9.700	139827.681	18879.946	26.403	9.702	3221.836	1946.386	1233,983

表 13 冷弯 **Z** 形钢基本尺寸及截面参数

Table 13 Basic dimensions and section properties of cold-formed **Z** steel

规格	尺寸 mm			理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4				回转半径 cm	惯性积矩 cm^4	截面模数 cm^3	
$H_Z \times B_Z \times t_1$	H_Z	B_Z	t_1			I_x	I_y	I_u	I_v	r_v	I_{xy}	W_x	W_y
80 × 40 × 2.5	80	40	2.5	2.947	3.755	37.021	9.707	43.307	3.421	0.954	14.532	9.255	2.505
80 × 40 × 3.0			3.0	3.491	4.447	43.148	11.429	50.606	3.970	0.944	17.094	10.787	2.968
100 × 50 × 2.5	100	50	2.5	3.732	4.755	74.429	19.321	86.840	6.910	1.205	28.947	14.885	3.963
100 × 50 × 3.0			3.0	4.433	5.647	87.275	22.837	102.038	8.073	1.195	34.194	17.455	4.708
Specification	Dimensions mm			Theoretical weight kg/m	Sectional area cm^2	Moment of inertia cm^4				Radius of gyration cm	Product of inertia cm^4	Section modulus cm^3	
$H_Z \times B_Z \times t_1$	H_Z	B_Z	t_1			I_x	I_y	I_u	I_v	r_v	I_{xy}	W_x	W_y
80 × 40 × 2.5	80	40	2.5	2.947	3.755	37.021	9.707	43.307	3.421	0.954	14.532	9.255	2.505

80 × 40 × 3.0			3.0	3.491	4.447	43.148	11.429	50.606	3.970	0.944	17.094	10.787	2.968
100 × 50 × 2.5	100	50	2.5	3.732	4.755	74.429	19.321	86.840	6.910	1.205	28.947	14.885	3.963
100 × 50 × 3.0			3.0	4.433	5.647	87.275	22.837	102.038	8.073	1.195	34.194	17.455	4.708

表 13 冷弯 **Z** 形钢基本尺寸及截面参数 (续)

Table 13 Basic dimensions and section properties of cold-formed **Z** steel (continued)

规格	尺寸 mm			理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4				回转半径 cm	惯性积矩 cm^4	截面模数 cm^3	
$H_Z \times B_Z \times t_1$	H_Z	B_Z	t_1			I_x	I_y	I_u	I_v	r_v	I_{xy}	W_x	W_y
140 × 70 × 3.0	140	70	3.0	6.291	8.065	249.769	64.316	290.867	23.218	1.697	96.492	35.681	9.389
140 × 70 × 4.0			4.0	8.272	10.605	322.421	83.925	376.599	29.747	1.675	125.922	46.061	12.342
200 × 100 × 3.0	200	100	3.0	9.099	11.665	749.379	191.180	870.468	70.091	2.451	286.800	74.938	19.409
200 × 100 × 4.0			4.0	12.016	15.405	977.164	251.093	1137.292	90.965	2.430	376.703	97.716	25.622
300 × 120 × 4.0	300	120	4.0	16.384	21.005	2871.420	438.304	3 124.579	185.144	2.969	824.655	191.428	37.144
300 × 120 × 5.0			5.0	20.251	25.963	3506.942	541.080	3823.534	224.489	2.940	1 019.410	233.796	46.049
400 × 150 × 6.0	400	150	6.0	31.595	40.507	9	1	10	548.91	3.681	2	479.93	86.488

						598.705	271.376	321.169	2		556.980	5	
400×150×8.0			8.0	41.611	53.347	12 449.116	1 661.661	13 404.115	706.662	3.640	3 348.736	622.456	113.812
Specification	Dimensions mm			Theoretical weight kg/m	Sectional area cm^2	Moment of inertia cm^4				Radius of gyration cm	Product of inertia cm^4	Section modulus cm^3	
$H_Z \times B_Z \times t_1$	H_Z	B_Z	t_1			I_x	I_y	I_u	I_v	r_v	I_{xy}	W_x	W_y
140 × 70 × 3.0	140	70	3.0	6.291	8.065	249.769	64.316	290.867	23.218	1.697	96.492	35.681	9.389
140 × 70 × 4.0			4.0	8.272	10.605	322.421	83.925	376.599	29.747	1.675	125.922	46.061	12.342
200 × 100 × 3.0	200	100	3.0	9.099	11.665	749.379	191.180	870.468	70.091	2.451	286.800	74.938	19.409
200 × 100 × 4.0			4.0	12.016	15.405	977.164	251.093	1137.292	90.965	2.430	376.703	97.716	25.622
300 × 120 × 4.0	300	120	4.0	16.384	21.005	2871.420	438.304	3 124.579	185.144	2.969	824.655	191.428	37.144
300 × 120 × 5.0			5.0	20.251	25.963	3506.942	541.080	3823.534	224.489	2.940	1 019.410	233.796	46.049
400 × 150 × 6.0	400	150	6.0	31.595	40.507	9 598.705	1 271.376	10 321.169	548.912	3.681	2 556.980	479.935	86.488

400×150×8.0			8.0	41.611	53.347	12 449.116	1 661.661	13 404.115	706.662	3.640	3 348.736	622.456	113.812

表 14 冷弯卷边 **Z** 形钢基本尺寸及截面参数

Table 14 Basic dimensions and section properties of cold-formed curled **Z** steel

规格	尺寸 mm				理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4				回转半径 cm	惯性积矩 cm^4	截面模数 cm^3	
$H_{ZJ} \times B_{ZJ} \times C_{ZJ} \times t_1$	H_{ZJ}	B_{ZJ}	C_{ZJ}	t_1			I_x	I_y	I_u	I_v	r_v	I_{xy}	W_x	W_y
100 × 40 × 20 × 2.0	100	40	20	2.0	3.208	4.086	60.618	17.202	71.373	6.448	1.256	24.136	12.123	4.410
100 × 40 × 20 × 2.5				2.5	3.933	5.010	73.047	20.324	85.730	7.641	1.234	28.802	14.609	5.245
120 × 50 × 20 × 2.0	120	50	20	2.0	3.820	4.870	106.970	30.230	126.060	11.140	1.510	42.770	17.830	6.170
120 × 50 × 20 × 2.5				2.5	4.700	5.980	129.390	35.910	152.050	13.250	1.490	51.300	21.570	7.370
Specification	Dimensions mm				Theoretical weight kg/m	Sectional area cm^2	Moment of inertia cm^4				Radius of gyration cm	Product of inertia cm^4	Section modulus cm^3	
$H_{ZJ} \times B_{ZJ} \times C_{ZJ} \times t_1$	H_{ZJ}	B_{ZJ}	C_{ZJ}	t_1			I_x	I_y	I_u	I_v	r_v	I_{xy}	W_x	W_y

100 × 40 × 20 × 2.0	100	40	20	2.0	3.208	4.086	60.618	17.202	71.373	6.448	1.256	24.136	12.123	4.410
100 × 40 × 20 × 2.5				2.5	3.933	5.010	73.047	20.324	85.730	7.641	1.234	28.802	14.609	5.245
120 × 50 × 20 × 2.0	120	50	20	2.0	3.820	4.870	106.970	30.230	126.060	11.140	1.510	42.770	17.830	6.170
120 × 50 × 20 × 2.5				2.5	4.700	5.980	129.390	35.910	152.050	13.250	1.490	51.300	21.570	7.370

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表 14 冷弯卷边 Z 形钢基本尺寸及截面参数(续)

Table 14 Basic dimensions and section properties of cold-formed curled Z steel (continued)

规格	尺寸 mm				理论重量 kg/m	截面面积 cm^2	惯性矩 cm^4				回转半径 cm	惯性积矩 cm^4	截面模数 cm^3	
$H_{ZJ} \times B_{ZJ} \times C_{ZJ} \times t_1$	H_{ZJ}	B_{ZJ}	C_{2J}	t_1			I_x	I_y	I_u	I_v	r_v	I_{xy}	W_x	W_y
120 × 50 × 20 × 3.0	120	50	20	3.0	5.540	7.050	150.140	40.880	175.920	15.110	1.460	58.990	25.020	8.430
140 × 50 × 20 × 2.5	140	50	20	2.5	5.110	6.510	188.502	36.358	210.140	14.720	1.503	61.321	26.928	7.458
140 × 50 × 20 × 3.0				3.0	6.040	7.695	219.848	41.554	244.527	16.875	1.480	70.775	31.406	8.567

160 × 60 × 20 × 2.5	160	60	20	2.5	5.870	7.480	288.120	58.150	323.130	23.140	1.760	96.320	36.010	9.900
160 × 60 × 20 × 3.0	160	60	20	3.0	6.950	8.850	336.660	66.660	376.760	26.560	1.730	111.510	42.080	11.390
160 × 70 × 20 × 2.5	160	70	20	2.5	6.270	7.980	319.130	87.740	374.760	32.110	2.010	126.370	39.890	12.760
160 × 70 × 20 × 3.0	160	70	20	3.0	7.420	9.450	373.640	101.100	437.720	37.030	1.980	146.860	46.710	14.760
180 × 70 × 20 × 2.5	180	70	20	2.5	6.680	8.510	422.926	88.578	476.503	35.002	2.028	144.165	46.991	12.884
180 × 70 × 20 × 3.0				3.0	7.924	10.095	496.693	102.345	558.511	40.527	2.003	167.926	55.188	14.940
230 × 75 × 25 × 3.0	230	75	25	3.0	9.573	12.195	951.373	138.928	1 030.579	59.722	2.212	265.752	82.728	18.901
230 × 75 × 25 × 4.0				4.0	12.518	15.946	1222.685	173.031	1320.991	74.725	2.164	335.933	106.320	23.703
250 × 75 × 25 × 3.0	250			3.0	10.044	12.795	1160.008	138.933	1 236.730	62.211	2.205	290.214	92.800	18.902
250 × 75 × 25 × 4.0				4.0	13.146	16.746	1492.957	173.042	1 588.130	77.869	2.156	366.984	119.436	23.704
300 × 100 × 30 × 4.0	300	100	30	4.0	16.545	21.211	2828.642	416.757	3 066.877	178.522	2.901	794.575	188.576	42.526

300 × 100 × 30 × 6.0				6.0	23.880	30.615	3 944.956	548.081	4 258.604	234.434	2.767	1 078.794	262.997	56.503
400 × 120 × 40 × 8.0	400	120	40	8.0	40.789	52.293	11 648.355	1 293.651	12 363.204	578.802	3.327	2 813.016	582.418	111.522
400 × 120 × 40 × 10				10	49.692	63.708	13 835.982	1 463.588	14 645.376	654.194	3.204	3266.384	691.799	127.269
Specification	Dimensions mm				Theoretical weight kg/m	Sectional area cm^2	Moment of inertia cm^4				Radius of gyration cm	Product of inertia cm^4	Section modulus cm^3	
$H_{ZJ} \times B_{ZJ} \times C_{ZJ} \times t_1$	H_{ZJ}	B_{ZJ}	C_{2J}	t_1			I_x	I_y	I_u	I_v	r_v	I_{xy}	W_x	W_y
120 × 50 × 20 × 3.0	120	50	20	3.0	5.540	7.050	150.140	40.880	175.920	15.110	1.460	58.990	25.020	8.430
140 × 50 × 20 × 2.5	140	50	20	2.5	5.110	6.510	188.502	36.358	210.140	14.720	1.503	61.321	26.928	7.458
140 × 50 × 20 × 3.0				3.0	6.040	7.695	219.848	41.554	244.527	16.875	1.480	70.775	31.406	8.567
160 × 60 × 20 × 2.5	160	60	20	2.5	5.870	7.480	288.120	58.150	323.130	23.140	1.760	96.320	36.010	9.900
160 × 60 × 20 × 3.0	160	60	20	3.0	6.950	8.850	336.660	66.660	376.760	26.560	1.730	111.510	42.080	11.390

160 × 70 × 20 × 2.5	160	70	20	2.5	6.270	7.980	319.130	87.740	374.760	32.110	2.010	126.370	39.890	12.760
160 × 70 × 20 × 3.0	160	70	20	3.0	7.420	9.450	373.640	101.100	437.720	37.030	1.980	146.860	46.710	14.760
180 × 70 × 20 × 2.5	180	70	20	2.5	6.680	8.510	422.926	88.578	476.503	35.002	2.028	144.165	46.991	12.884
180 × 70 × 20 × 3.0				3.0	7.924	10.095	496.693	102.345	558.511	40.527	2.003	167.926	55.188	14.940
230 × 75 × 25 × 3.0	230	75	25	3.0	9.573	12.195	951.373	138.928	1 030.579	59.722	2.212	265.752	82.728	18.901
230 × 75 × 25 × 4.0				4.0	12.518	15.946	1222.685	173.031	1320.991	74.725	2.164	335.933	106.320	23.703
250 × 75 × 25 × 3.0	250			3.0	10.044	12.795	1160.008	138.933	1 236.730	62.211	2.205	290.214	92.800	18.902
250 × 75 × 25 × 4.0				4.0	13.146	16.746	1492.957	173.042	1 588.130	77.869	2.156	366.984	119.436	23.704
300 × 100 × 30 × 4.0	300	100	30	4.0	16.545	21.211	2828.642	416.757	3 066.877	178.522	2.901	794.575	188.576	42.526
300 × 100 × 30 × 6.0				6.0	23.880	30.615	3 944.956	548.081	4 258.604	234.434	2.767	1 078.794	262.997	56.503
400 × 120 × 40 × 8.0	400	120	40	8.0	40.789	52.293	11 648.355	1 293.651	12 363.204	578.802	3.327	2 813.016	582.418	111.522

400 × 120 × 40 × 10				10	49.692	63.708	13 835.982	1 463.588	14 645.376	654.1 94	3.204	3266.3 84	691.7 99	127.2 69

表 15 卷边等边角钢基本尺寸及截面参数

Table 15 Basic dimensions and section properties of lipped equal angles

规格	尺寸 mm			理论重量 kg/m	截面面积 cm^2	重心 Y_0 cm	惯性矩 cm^4			回转半径 cm			截面模数 cm^3	
$B_{JJ} \times C_{JJ} \times t_1$	B_{JJ}	C_{JJ}	t_1				$I_x = I_y$	I_u	I_v	$r_x = r_y$	r_u	r_v	$W_{ymax} = W_{xmax}$	$W_{ymin} = W_{xmin}$
40 × 15 × 2.0	40	15	2.0	1.530	1.950	1.404	3.930	5.740	2.120	1.420	1.720	1.040	2.800	1.510
60 × 20 × 2.0	60	20	2.0	2.320	2.950	2.026	13.830	20.560	7.110	2.170	2.640	1.550	6.830	3.480
75 × 20 × 2.0	75	20	2.0	2.790	3.550	2.396	25.600	39.010	12.190	2.690	3.310	1.810	10.680	5.020
75 × 20 × 2.5	75	20	2.5	3.420	4.360	2.401	30.760	46.910	14.600	2.660	3.280	1.830	12.810	6.030
Specification	Dimensions mm			Theoretical weight kg/m	Sectional area cm^2	Center of gravity Y_0 cm	Moment of inertia cm^4			Radius of gyration cm			Section modulus cm^3	
$B_{JJ} \times C_{JJ} \times t_1$	B_{JJ}	C_{JJ}	t_1				$I_x = I_y$	I_u	I_v	$r_x = r_y$	r_u	r_v	$W_{ymax} = W_{xmax}$	$W_{ymin} = W_{xmin}$
40 × 15 × 2.0	40	15	2.0	1.530	1.950	1.404	3.930	5.740	2.120	1.420	1.720	1.040	2.800	1.510

60 × 20 × 2.0	60	20	2.0	2.320	2.950	2.026	13.830	20.560	7.110	2.170	2.640	1.550	6.830	3.480
75 × 20 × 2.0	75	20	2.0	2.790	3.550	2.396	25.600	39.010	12.190	2.690	3.310	1.810	10.680	5.020
75 × 20 × 2.5	75	20	2.5	3.420	4.360	2.401	30.760	46.910	14.600	2.660	3.280	1.830	12.810	6.030

6.1.2.3 开口型钢外圆弧半径

6.1.2.3 Outer corner radius of open sections

弯曲角部分的外圆弧半径应符合表 16 的规定。经供需双方协商，并在合同注明也可供应其他外圆弧角半径的开口型钢。

The outer corner radius of the bent portion shall comply with the provisions of Table 16. Upon agreement between the supplier and the purchaser and specified in the contract, open sections with other outer corner radii may also be supplied.

表 16 开口型钢外圆弧半径

Table 16 Outer corner radius of open sections

单位为毫米

Unit in millimeters

上屈服强度等级/MPa	外圆弧半径 R		
	壁厚 t		
	$t \leq 4.0$	$4.0 < t \leq 12.0$	12.0<t≤19.0< td=""></t≤19.0<>
235	$(1.5 \sim 2.5)t$	$(2.0 \sim 3.0)t$	$(2.5 \sim 3.5)t$
355,390	$(2.0 \sim 3.0)t$	$(2.0 \sim 3.5)t$	(2.5~4.0) t
420、460	$(2.0 \sim 3.0)t$	$(2.5 \sim 4.0)t$	
500 及以上级别	供需双方协议		
Upper yield strength grade/MPa	Outer arc radius R		
	Wall thickness t		
	$t \leq 4.0$	$4.0 < t \leq 12.0$	12.0
235	$(1.5 \sim 2.5)t$	$(2.0 \sim 3.0)t$	$(2.5 \sim 3.5)t$
355,390	$(2.0 \sim 3.0)t$	$(2.0 \sim 3.5)t$	(2.5~4.0) t
420, 460	$(2.0 \sim 3.0)t$	$(2.5 \sim 4.0)t$	

Grade 500 and above	Agreement between supplier and purchaser

6.1.2.4 开口型钢尺寸允许偏差

6.1.2.4 Permissible deviations for dimensions of open steel sections

6.1.2.4.1 开口型钢非自由边长度的允许偏差应符合表 17 的规定。

.2.4.1 The permissible deviations for the length of non-free edges of open steel sections shall comply with the provisions of Table 17.

表 17 开口型钢非自由边长允许偏差

Table 17 Permissible deviations for length of non-free edges of open steel sections

单位为毫米

Unit: mm

公称边厚度 t_1	边长				
	≤40	>40~100	>100~200	>200~400	>400
≤4.0	±0.50	±0.75	±1.00	-	-
>4.0~8.0	-	±1.00	±1.50	±2.00	±2.50
>8.0~12.0	-	-	±2.00	±2.50	±3.00
>12.0~19.0	-	-	-	±3.00	±3.50
Nominal edge thickness t_1	Edge length				
	≤40	>40~100	>100~200	>200~400	>400
≤4.0	±0.50	±0.75	±1.00	-	-
>4.0~8.0	-	±1.00	±1.50	±2.00	±2.50
>8.0~12.0	-	-	±2.00	±2.50	±3.00
>12.0~19.0	-	-	-	±3.00	±3.50

6.1.2.4.2 开口型钢自由边长度的允许偏差应符合表 18 的规定。

.2.4.2 The permissible deviation of the free edge length of open-section steel shall comply with the provisions of Table 18.

表 18 开口型钢自由边长允许偏差

Table 18 Permissible deviation of free edge length of open-section steel

单位为毫米

Unit: mm

公称边厚度 t_1	边长				
	≤40	>40~100	>100~200	>200~300	>300
≤4.0	±1.00	±1.00	±1.50	-	-
>4.0~8.0	±1.25	±1.50	±2.00	±2.00	-
>8.0~12.0	-	±2.00	±2.50	±2.50	±3.00
>12.0	-	-	-	±3.00	±3.50
Nominal edge thickness t_1	Edge length				
	≤40	>40~100	>100~200	>200~300	>300
≤4.0	±1.00	±1.00	±1.50	-	-
>4.0~8.0	±1.25	±1.50	±2.00	±2.00	-
>8.0~12.0	-	±2.00	±2.50	±2.50	±3.00
>12.0	-	-	-	±3.00	±3.50

6.1.2.4.3 两个自由边长公称尺寸相等时，其实际尺寸差值不应大于公差的 75%。两个自由边长公称尺寸不相等时按较大边长允许偏差执行。

.2.4.3 When the nominal dimensions of two free edge lengths are equal, the difference between their actual dimensions shall not exceed 75% of the tolerance. When the nominal dimensions of two free edge lengths are unequal, the permissible deviation of the larger edge length shall apply.

6.1.2.4.4 开口型钢平板部分边厚度的允许偏差应符合附录 B 的规定。边厚度大于 *3* mm 以上的开口型钢的弯曲角区域(内、外圆弧半径区域)的边厚度减薄量不超过型钢公称壁厚的 10%。边厚度不大于 *3* mm 的开口型钢的弯曲角区域一般不做测量要求,当需方有要求时,由供需双方协议。

.2.4.4 The permissible deviation of the edge thickness of the flat part of open-section steel shall comply with the provisions of Appendix B. For open-section steel with an edge thickness greater than *3* mm , the reduction in edge thickness in the bending angle area (inner and outer arc radius areas) shall not exceed 10% of the nominal wall thickness of the steel. For open-section steel with an edge thickness not greater than *3* mm , the bending angle area is generally not subject to measurement requirements; if the purchaser has requirements, it shall be agreed upon by both the supplier and the purchaser.

6.1.2.5 开口型钢弯曲角度允许偏差

6.1.2.5 Permissible deviation of bending angle for open-section steel

弯曲角度的允许偏差应符合表 19 的规定。

The permissible deviation of the bending angle shall comply with the provisions of Table 19.

表 19 开口型钢弯曲角度允许偏差

Table 19 Permissible deviation of bending angle for open-section steel

较短边长尺寸/mm	允许偏差 /(°)
≤ 10	±3.0
>10~40	±2.0
>40~80	±1.5
>80	±1.0
Shorter side length/mm	Permissible deviation /(°)
≤ 10	±3.0
>10~40	±2.0
>40~80	±1.5
>80	±1.0

6.1.2.6 测量位置

6.1.2.6 Measurement locations

开口型钢尺寸测量位置应符合表 20 的规定。经供需双方协商并在合同中注明, 也可供应端部整形后的型钢产品，具体测量位置和方法由双方约定。

The measurement locations for the dimensions of open steel sections shall comply with the provisions of Table 20. Subject to agreement between the supplier and the purchaser and specified in the contract, products with end-shaped sections may also be supplied, with specific measurement locations and methods agreed upon by both parties.

表 20 开口型钢测量位置

Table 20 Measurement locations for open steel sections

单位为毫米

Unit in millimeters

开口型钢最大边长	距离端部测量位置, 不小于
≤100	200
>100~300	300
>300~500	400
>500	协议
Maximum side length of open-section steel	Measurement position from the end, not less than
≤100	200
>100~300	300
>300~500	400
>500	Agreement

6.2 长度及允许偏差

6.2 Length and Permissible Deviations

6.2.1 闭口型钢

6.2.1 Closed Section Steel

6.2.1.1 闭口型钢通常交货长度为 *4000* mm ~ *12000* mm 。经供需双方协商，可供应其他长度的型钢。

.1.1 The delivery length of closed section steel is usually *4000* mm ~ *12000* mm . Other lengths may be supplied upon agreement between the supplier and the purchaser.

6.2.1.2 闭口型钢按定尺或倍尺长度交货时，应在合同中注明。其长度允许偏差应符合表 21 的规定，合同中未注明定尺精度时按普通定尺交货。

.1.2 When closed section steel is delivered in fixed or multiple lengths, it shall be specified in the contract. The permissible deviations in length shall comply with the provisions of Table 21. If the fixed length precision is not specified in the contract, it shall be delivered as standard fixed length.

表 21 定尺长度及允许偏差

Table 21 Fixed Length and Permissible Deviations

单位为毫米

Unit: mm

定尺精度	长度	允许偏差
普通定尺	4000~12000	+50 0
精确定尺	4000~6000	+5 0
	>6 000~12 000	+10 0
Fixed length accuracy	Length	Permissible deviation
Standard fixed length	4000~12000	+50 0
Precision fixed length	4000~6000	+5 0
	>6 000~12 000	+10 0

6.2.1.3 闭口型钢不准许对接交货。允许交付不小于 2000 mm 的短尺和非定尺。短尺和非定尺管重量应不超过总交货量的 *5%* 。对于理论重量大于 *20* kg/m 的型钢应不超过总交货量的 10%。

.1.3 Closed-section steel is not allowed to be delivered with butt joints. Short lengths and random lengths of not less than 2000 mm are permitted. The weight of short and random length pipes shall not exceed *5%* of the total delivery quantity. For steel sections with a theoretical weight greater than *20* kg/m , it shall not exceed 10% of the total delivery quantity.

6.2.2 开口型钢

6.2.2 Open-section steel

6.2.2.1 开口型钢通常长度为 *4000* mm ~ *16000* mm 。经供需双方并在合同中注明，也可供应超过上述规定长度的型钢。

.2.1 Open-section steel is usually supplied in lengths of *4000* mm ~ *16000* mm . Upon agreement between the supplier and the purchaser and specified in the contract, steel sections exceeding the above-specified lengths may also be supplied.

6.2.2.2 开口型钢按定尺或倍尺长度交货时，应在合同中注明。当按定尺或倍尺交货时，其长度允许偏差应符合表 22 的规定，合同中未注明定尺精度时按普通定尺交货。

.2.2 When open-section steel is delivered in fixed or multiple lengths, it shall be specified in the contract. When delivered in fixed or multiple lengths, the permissible length deviation shall comply with the provisions of Table 22. If the fixed length precision is not specified in the contract, it shall be delivered as standard fixed lengths.

表 22 长度允许偏差

Table 22 Permissible length deviation

单位为毫米

Unit in millimeters

定尺精度	长度	允许偏差
普通定尺	4000~16000	+50 0
精确定尺	4000~8000	+5 0
	>8 000~16 000	+10 0

Cut-to-length accuracy	Length	Permissible deviation
Standard cut-to-length	4000~16000	+50 0
Precision cut-to-length	4000~8000	+5 0
	>8 000~16 000	+10 0

6.2.2.3 开口冷弯型钢允许交付长度不小于 2000 mm 的短尺和非定尺产品，也可以以型钢对接接头 (环向焊缝)形式交付型钢产品,但需方在使用时需要将开口型钢对接接头(环向焊缝)自行切除。短尺和非定尺型钢重量不应超过总交货量的 5%。

.2.3 Open cold-formed steel sections may be delivered in short lengths or non-fixed lengths not less than 2000 mm, or as sections with butt joints (circumferential welds), provided that the purchaser removes the butt joints (circumferential welds) during use. The weight of short-length and non-fixed-length sections shall not exceed 5% of the total delivery quantity.

6.3 外形

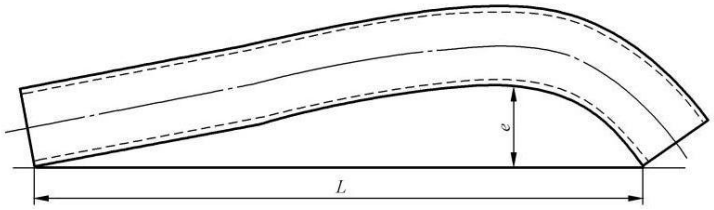
6.3 Shape

6.3.1 闭口型钢

6.3.1 Closed sections

6.3.1.1 型钢弯曲度每米不应大于 *2* mm ，总弯曲度不应大于总长度的 0.15%。测量方法见图 16。

.1.1 The camber of the section shall not exceed *2* mm per meter, and the total camber shall not exceed 0.15% of the total length. See Figure 16 for the measurement method.



标引符号说明:

Key to symbols:

L-一长度;

L—length;

e —— 弯曲度。

e—camber.

图 16 弯曲度偏差的测定

Figure 16 Determination of camber deviation

6.3.1.2 经供需双方协商并在合同中注明, 可测量闭口冷弯型钢的扭转度, 测量时应在平台上进行。测量方法按照图 17 所示,所测值应小于 V 值并按公式 (1) 计算:

.1.2 Upon agreement between the supplier and the purchaser and specified in the contract, the twist of closed cold-formed sections may be measured on a platform. The measurement method shall be as shown in Figure 17, and the measured value shall be less than the V value and calculated according to formula (1):

$$V = 2 + L \times 0.5/1000 \qquad (1)$$

式中:

Where:

V ——扭转度，单位为毫米(mm)；

V —twist, in millimeters (mm);

L ——长度，单位为毫米(mm)。

L —length, in millimeters (mm).

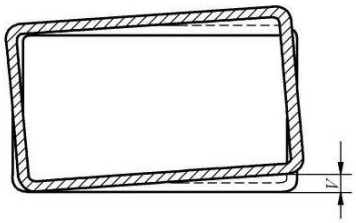


图 17 方形或矩形型钢的扭转度测量示意图

Figure 17 Schematic diagram of twist measurement for square or rectangular sections

标引符号说明:

Key to symbols:

V ——扭转度。

V —twist.

6.3.1.3 型钢的端部应切正直，其锯切斜度应符合表 23 的规定。允许由切断方法造成的较小变形和毛刺存在。

.1.3 The ends of the sections shall be cut square, and the cutting deviation shall comply with the provisions of Table 23. Minor deformation and burrs caused by the cutting method are permitted.

表 23 锯切斜度的规定

Table 23 Provisions for sawing inclination

单位为毫米

Unit in millimeters

最大公称边长 (或公称外径)	锯切斜度,小于
≤100	2
>100~300	4
>300~500	6
>500	协议
Maximum nominal side length (or nominal outer diameter)	Sawing deviation, less than
≤100	2
>100~300	4
>300~500	6
>500	Agreement

6.3.1.4 圆形型钢的不圆度 (同一横截面实测最大外径和最小外径之差) 应符合表 24 的规定。

.1.4 The out-of-roundness of circular section steel (the difference between the maximum and minimum measured outer diameters in the same cross-section) shall comply with the requirements of Table 24.

表 24 圆形型钢的不圆度

Table 24 Out-of-roundness of circular section steel

单位为毫米

Unit in millimeters

公称口径(DN)	公称外径(D)	不圆度不大于
15	21.0(21.3)	0.30
20	26.8(26.9)	0.35
25	33.5(33.7)	0.40
32	42.3(42.4)	0.40
40	48.0(48.3)	0.50
50	60.0(60.3)	0.60
65	75.5(76.1)	0.60
80	88.5(88.9)	0.70
100	114.0(114.3)	0.80
125	140.0(139.7)	1.00
150	165.1(168.3)	1.20
200	219.0(219.1)	1.60
-	>219.1	圆形型钢端不圆度: $D \leq 610$ 时， $0.5\%D$ ；$610 < D \leq 1219$ ，且: $--\ D/t \leq 75$ 时， $1\%D$ 或 13，两者取较小值； $--\ D/t > 75$ 时，按协议；$D > 1219$ 时，供需双方协商确定
注 1:公称口径(DN)为内径的代号，其数值不做计算使用。 注 2:公称外径(D)中括号内为系列 1，括号外为系列 2。		
Nominal diameter (DN)	Nominal outside diameter (D)	Out-of-roundness not greater than
15	21.0(21.3)	0.30

20	26.8(26.9)	0.35
25	33.5(33.7)	0.40
32	42.3(42.4)	0.40
40	48.0(48.3)	0.50
50	60.0(60.3)	0.60
65	75.5(76.1)	0.60
80	88.5(88.9)	0.70
100	114.0(114.3)	0.80
125	140.0(139.7)	1.00
150	165.1(168.3)	1.20
200	219.0(219.1)	1.60
-	>219.1	Out-of-roundness of round steel ends: When $D \leq 610$, $0.5\%D$; When $610 < D \leq 1219$, and: When $--\ D/t \leq 75$, $1\%D$ or 13, whichever is smaller; When $--\ D/t > 75$, by agreement; When $D > 1219$, determined by negotiation between the supplier and the purchaser
Note 1: Nominal diameter (DN) is a code for internal diameter, and its value is not used for calculation. Note 2: In nominal outside diameter (D), values in brackets are Series 1, and values outside brackets are Series 2.		

6.3.2 开口型钢

6.3.2 Open-section steel profiles

6.3.2.1 型钢弯曲度每米应不大于 2 mm，总弯曲度应不大于总长度的 0.2%。

.2.1 The camber of the steel profile shall not exceed 2 mm per meter, and the total camber shall not exceed 0.2% of the total length.

6.3.2.2 型钢平面部分的凹凸度应不超过该边长的 0.6%，但至少为 0.4 mm。

.2.2 The convexity or concavity of the flat parts of the steel profile shall not exceed 0.6% of the corresponding side length, with a minimum of 0.4 mm.

6.3.2.3 经供需双方协商并在合同中注明, 可测量开口冷弯型钢的扭转度, 测量时应在平台上进行, 所测值应小于 V 值并按公式 (1) 计算:

.2.3 Upon agreement between the supplier and the purchaser and specified in the contract, the twist of open cold-formed steel profiles may be measured. Measurement shall be performed on a platform, and the measured value shall be less than the V value, calculated according to formula (1):

$$V = 2 + L \times 0.5/1000 \qquad (1)$$

式中:

Where:

V ——扭转度，单位为毫米(mm)；

V — twist, in millimeters (mm);

L ——长度，单位为毫米(mm)；

L — length, in millimeters (mm);

6.3.2.4 型钢端部应切正直，允许存在切割造成的较小变形和毛刺。

.2.4 The ends of the steel profile shall be cut square; minor deformations and burrs caused by cutting are permitted.

6.3.3 型钢热切断要求

6.3.3 Requirements for thermal cutting of steel profiles

采用激光切割或等离子弧切割等在线热切割切断工艺的开、闭口冷弯型钢产品，允许有切割微小割纹结瘤和切割穿刺缺口存在。开闭口型钢总边长超过 *700* mm 时同一切割截面允许有两个以上的切割穿刺缺口存在。

For open and closed cold-formed steel profile products using online thermal cutting processes such as laser cutting or plasma arc cutting, minor cutting striations, dross, and piercing notches are permitted. When the total side length of the open or closed steel profile exceeds *700* mm , more than two piercing notches are permitted on the same cutting cross-section.

注 1:割纹指切割过程中，切割射流吹除材料后，在被切割工件的切割面上留下的纹路。

Note 1: Striations refer to the marks left on the cut surface of the workpiece after the cutting jet removes material during the cutting process.

注 2:结瘤指熔化切割(如等离子弧切割、激光切割) 时，熔化金属高速吹落的同时，还有一部分会附着于切割面下缘而凝固残留下来，称此附着物为结瘤。

Note 2: Dross refers to the solidified residue that adheres to the lower edge of the cut surface when molten metal is blown away at high speed during fusion cutting (e.g., plasma arc cutting, laser cutting).

6.4 重量及允许偏差

6.4 Weight and permissible deviations

型钢应按实际重量交货。根据需方要求，经供需双方协商，并在合同中注明，也可按理论重量交货。

Steel profiles shall be delivered based on actual weight. Upon request by the purchaser and agreement between the supplier and the purchaser, and specified in the contract, delivery may also be based on theoretical weight.

当以理论重量交货时,型钢的边长合计不超过 *1600* mm 时,每批型钢的实际重量与理论重量的允许偏差应为 *−6*% ~+ *10*% 。型钢的边长合计超过 *1600* mm 时,每批型钢的实际重量与理论重量的允许偏差应为 *−4*% ~+ *6*% 。

When delivered based on theoretical weight, if the total side length of the steel profile does not exceed *1600* mm , the permissible deviation between the actual weight and theoretical weight of each batch of steel profiles shall be *−6*% ~+ *10*% . When the total side length of the steel profile exceeds *1600* mm , the permissible deviation between the actual weight and theoretical weight of each batch of steel profiles shall be *−4*% ~+ *6*% .

6.5 牌号和化学成分

6.5 Grade and chemical composition

6.5.1 原料和型钢的牌号和化学成分(熔炼分析)应符合 GB/T 699、GB/T 700、GB/T 714、 GB/T 1591、GB/T 3280、GB/T 4171、GB/T 20878、GB/T 33162 等的规定。根据需方要求，经供需双方协商，并在合同中注明，也可提供其他牌号的型钢。

.1 The grades and chemical compositions (heat analysis) of raw materials and section steel shall comply with the provisions of GB/T 699, GB/T 700, GB/T 714, GB/T 1591, GB/T 3280, GB/T 4171, GB/T 20878, GB/T 33162, etc. Upon request by the purchaser, through negotiation between the supplier and the purchaser, and specified in the contract, section steel of other grades may also be provided.

6.5.2 型钢按熔炼成分验收。当需方要求进行成品分析时,应在合同中注明。型钢成品的化学成分允许偏差应符合 GB/T 222 的规定。

.2 Section steel shall be accepted based on heat analysis. When the purchaser requires product analysis, it shall be specified in the contract. The permissible deviations of the chemical composition of the finished section steel shall comply with the provisions of GB/T 222.

6.5.3 镀锌用锌锭应符合 GB/T 470-2008 中牌号为 Zn99.995 或 Zn99.99 锌锭的规定。

.3 Zinc ingots for galvanizing shall comply with the provisions for grade Zn99.995 or Zn99.99 in GB/T 470-2008.

6.6 原材料

6.6 Raw Materials

6.6.1 原料钢带尺寸偏差应符相应材料标准的规定。当材料标准未明确时，应按 GB/T 709 的规定。

.1 Dimensional deviations of raw steel strips shall comply with the provisions of the corresponding material standards. When not specified in the material standards, they shall comply with the provisions of GB/T 709.

6.6.2 型钢镀锌前应进行尺寸、外形、表面、力学性能检验。

.2 Before galvanizing, section steel shall be inspected for dimensions, shape, surface, and mechanical properties.

6.7 制造工艺

6.7 Manufacturing Process

6.7.1 闭口型钢通常采用连续辊式冷弯成型工艺生产。但对于壁厚 *18* mm 及以上的闭口型钢也可采用二次成型工艺生产。

.1 Closed section steel is usually produced by a continuous roll cold-forming process. However, for closed section steel with a wall thickness of *18* mm and above, a secondary forming process may also be used.

6.7.2 开口型钢通常采用连续辊式冷弯成型工艺生产, 也可采用冲压、折弯工艺生产。

.2 Open section steel is usually produced by a continuous roll cold-forming process, and may also be produced by stamping or bending processes.

6.7.3 闭口型钢的焊接工艺可采用直缝高频电焊、直缝埋弧焊或螺旋缝埋弧焊等。

.3 The welding process for closed section steel may adopt straight-seam high-frequency electric welding, straight-seam submerged arc welding, or spiral-seam submerged arc welding, etc.

6.8 力学性能

6.8 Mechanical Properties

6.8.1 型钢的屈服强度、抗拉强度、断后伸长率应符合表 25 的规定。Q195、Q215、不锈钢或其他钢牌号的力学性能应由供需双方协商确定。

.1 The yield strength, tensile strength, and elongation after fracture of section steel shall comply with the provisions of Table 25. The mechanical properties of Q195, Q215, stainless steel, or other steel grades shall be determined through negotiation between the supplier and the purchaser.

表 25 力学性能

Table 25 Mechanical Properties

序号	产品屈服强度等级	上屈服强度 R_{eH}/MPa 不小于	抗拉强度 R_m/MPa	断后伸长率 A/% 不小于
1	235	235	370~560	24
2	355	355	470~680	20
3	390	390	490~700	18
4	420	420	520~730	协议

5	460	460	550~770	协议

No.	Product yield strength grade	Upper yield strength R_{eH}/MPa not less than	Tensile strength R_m/MPa	Elongation after fracture A/% not less than
1	235	235	370~560	24
2	355	355	470~680	20
3	390	390	490~700	18
4	420	420	520~730	Agreement
5	460	460	550~770	Agreement

表 25 力学性能(续)

Table 25 Mechanical Properties (continued)

序号	产品屈服强度等级	上屈服强度 R_{eH}/MPa 不小于	抗拉强度 R_m/MPa	断后伸长率 A/% 不小于
6	500	500	610~820	协议
7	550	550	670~880	协议
8	620	620	710~940	协议
9	690	690	770~1000	协议
10	750	750	750~1010	协议
断面尺寸不大于 60 mm × 60mm (包括等周长尺寸的圆及矩形冷弯型钢) 的冷弯型钢产品或边 (短边) 厚比不大 14 的冷弯型钢产品,平板部分断后伸长率允许比表中规定降低 3% (绝对值),采用的拉伸试样宽度为 12.5 mm				

No.	Product yield strength grade	Upper yield strength R_{eH}/MPa not less than	Tensile strength R_m/MPa	Elongation after fracture A/% not less than

6	500	500	610~820	Agreement
7	550	550	670~880	Agreement
8	620	620	710~940	Agreement
9	690	690	770~1000	Agreement
10	750	750	750~1010	Agreement
For cold-formed steel products with a cross-sectional dimension not greater than 60 mm × 60mm (including circular and rectangular cold-formed steel with equal perimeter) or cold-formed steel products with a side (short side) to thickness ratio not greater than 14, the elongation after fracture of the flat part is allowed to be 3% (absolute value) lower than specified in the table, using a tensile test specimen width of 12.5 mm				

6.8.2 经供需双方协商,并在合同中注明,可对厚度不小于 *6* mm 的冷弯型钢进行冲击试验。冲击试验结果及其复验应符合 GB/T 699、GB/T 700、GB/T 714、GB/T 1591、GB/T 4171 等相关原料标准的规定。

.2 Upon agreement between the supplier and the purchaser and specified in the contract, impact tests may be conducted on cold-formed steel with a thickness of not less than *6* mm . The results of the impact test and its re-inspection shall comply with the provisions of relevant raw material standards such as GB/T 699, GB/T 700, GB/T 714, GB/T 1591, and GB/T 4171.

6.9 表面质量

6.9 Surface Quality

6.9.1 型钢表面应光滑，不应有折叠、裂纹、气泡、结疤、夹杂、分层、搭焊、烧穿; 允许有深度(高度) 不超过厚度公差之半的压痕、擦伤和压入的氧化铁皮。

.1 The surface of the section steel shall be smooth and free of folds, cracks, bubbles, scars, inclusions, laminations, lap welds, and burn-throughs; indentations, scratches, and pressed-in iron oxide scale with a depth (height) not exceeding half of the thickness tolerance are permitted.

6.9.2 型钢的表面缺陷允许用修磨方法清理，清理深度不应超过型钢公称壁厚负偏差，清理后型钢厚度不应小于最小允许厚度。

.2 Surface defects of section steel may be removed by grinding, provided that the grinding depth does not exceed the negative tolerance of the nominal wall thickness and the thickness of the section steel after grinding is not less than the minimum allowable thickness.

6.9.3 当需方对表面质量有特殊要求时, 应由供需双方协商, 并在合同中注明。

.3 When the purchaser has special requirements for surface quality, it shall be negotiated by both the supplier and the purchaser and specified in the contract.

6.10 焊缝质量

6.10 Weld Quality

6.10.1 外焊缝质量

6.10.1 External weld quality

闭口型钢焊缝处不应有开焊、搭焊、烧穿、错边及弧坑, 焊缝处的缺陷允许补焊、打磨, 但修复后应平整光滑, 且修磨后的厚度应不小于最小允许厚度。

Closed-section steel welds shall be free of unwelded spots, lap welds, burn-throughs, misalignment, and arc craters. Defects in welds may be repaired by welding and grinding, but the repaired area must be smooth and level, and the thickness after grinding shall not be less than the minimum allowable thickness.

6.10.2 焊缝外毛刺

6.10.2 External weld burrs

闭口型钢焊缝处的外毛刺应予以清除，清除后的焊缝余高通常不超过 0.5 mm。焊缝处的内毛刺一般不清除，如有特殊要求，由供需双方协商确定。

External burrs at the weld seam of closed steel sections shall be removed, and the remaining weld reinforcement after removal shall generally not exceed 0.5 mm. Internal burrs at the weld seam are generally not removed; if there are special requirements, they shall be determined through consultation between the supplier and the purchaser.

6.10.3 内焊缝质量

6.10.3 Internal Weld Quality

闭口型钢内焊缝应连续、均匀饱满。

The internal welds of closed steel sections shall be continuous, uniform, and full.

6.10.4 其他要求

6.10.4 Other Requirements

经供需双方协商，并在合同中注明，可增加对焊缝位置的要求，检验焊缝的力学性能和工艺性能，以及进行无损检测。

Subject to negotiation between the supplier and the purchaser and specified in the contract, requirements for weld locations may be added, mechanical and technological properties of welds may be tested, and non-destructive testing may be performed.

6.11 镀锌层

6.11 Galvanized layer

6.11.1 镀锌方法

6.11.1 Galvanizing Methods

对于镀锌型钢应采用热浸镀锌法。

Hot-dip galvanizing shall be used for galvanized steel sections.

6.11.2 镀锌层重量

6.11.2 Galvanized coating weight

镀锌型钢应测量镀锌层重量。闭口镀锌型钢内外表面镀锌层单位面积重量应不小于 *200* g/m^2 。 经供需双方协商，并在合同中注明，也可供应内外表面镀层单位面积重量不低于 *200* g/m^2 的其他镀层重量的闭口镀锌型钢。

The galvanized coating weight of galvanized steel sections shall be measured. The weight per unit area of the galvanized coating on the inner and outer surfaces of closed galvanized steel sections shall be no less than *200* g/m^2 . Subject to negotiation between the supplier and the purchaser and specified in the contract, closed galvanized steel sections with

other coating weights, where the weight per unit area on the inner and outer surfaces is no less than *200* g/m^2 , may also be supplied.

闭口型钢镀锌层重量的测量方法应按附录 C 执行。

The measurement method for the galvanized coating weight of closed steel sections shall be in accordance with Appendix C.

开口型钢镀锌层重量的测量方法应由供需双方协商。

The measurement method for the galvanized coating weight of open steel sections shall be negotiated between the supplier and the purchaser.

6.11.3 镀锌层均匀性试验

6.11.3 Galvanized coating uniformity test

闭口镀锌型钢应进行锌层均匀性试验。试验时, 试样 (焊缝处除外) 在硫酸铜溶液中连续浸渍 3 次应不变红(镀铜色)。型钢镀锌层均匀性的测量方法应按附录 D 执行。

Closed galvanized steel sections shall undergo a zinc coating uniformity test. During the test, the specimen (excluding the weld area) shall not turn red (copper-plated color) after being immersed in a copper sulfate solution for 3 consecutive times. The measurement method for the uniformity of the galvanized coating on steel sections shall be in accordance with Appendix D.

开口镀锌型钢锌层均匀性试验由供需双方协商。

The zinc coating uniformity test for open galvanized steel sections shall be negotiated between the supplier and the purchaser.

6.11.4 镀锌层的表面质量

6.11.4 Surface quality of galvanized coating

6.11.4.1 镀锌型钢的内外表面镀锌层应完整，出厂产品不应有未镀上锌的黑斑和气泡存在，允许有不大的粗糙面和局部的锌瘤存在。

.4.1 The galvanized coating on the inner and outer surfaces of galvanized steel sections shall be complete. Products leaving the factory shall be free of ungalvanized black spots and blisters; minor rough surfaces and localized zinc nodules are permitted.

6.11.4.2 型钢镀锌后表面可进行钝化处理, 也可采用其他方法进行表面处理。

.4.2 After galvanizing, the surface of the steel sections may be passivated or treated by other surface treatment methods.

7 试验方法

7 Test Methods

7.1 型钢的尺寸和外形应采用符合精度要求的量具测量。

The dimensions and shape of the steel sections shall be measured using measuring tools that meet accuracy requirements.

7.2 型钢的内外表面应在充分照明条件下逐根目视检查。

The inner and outer surfaces of the steel sections shall be visually inspected piece by piece under sufficient lighting conditions.

7.3 型钢的其他检验项目的取样方法和试验方法应符合表 26 的规定。

The sampling methods and test methods for other inspection items of the steel sections shall comply with the provisions of Table 26.

表 26 型钢的检验项目、取样方法、试验方法

Table 26 Inspection items, sampling methods, and test methods for steel sections

序号	检测项目	检验频次	取样数量	取样方法。	试验方法
1	熔炼分析	1 次/炉	1 个	GB/T 20066 或相关标准	相应产品标准规定
2	成品分析	1 次/炉	1 个		
3	尺寸外形	逐根	-	-	7.1
4	表面	逐根	-	-	7.2
5	拉伸试验 *a,b*	1 次/批	1 个	GB/T 2975 纵向试样	GB/T 228.1
6	冲击试验	1 次/	1 个	GB/T	GB/T 229

	a,b	批		2975 纵向试样	
7	焊缝	逐根	-	6.10	6.10
8	镀锌层重量	1 次/批	附录 C	附录 C	附录 C
9	锌层均匀性试验	1 次/批	附录 D	附录 D	附录 D

当 GB/T 2975 中无相关规定时,应在产品最长平板部分的中部取纵向样,平板部分应不包括焊缝及角部。 b 对于矩形型钢, 取样位置应在宽面上(不包括焊缝)。 平口型钢取样位置应选择在开口型钢最宽面的中间部位。

No.	Test Item	Test Frequency	Sampling Quantity	Sampling Method.	Test Method
1	Heat Analysis	1 time/heat	1 piece	GB/T 20066 or relevant standards	Specified in corresponding product standards
2	Product Analysis	1 time/heat	1 piece		
3	Dimensions and Shape	Each piece	-	-	7.1
4	Surface	Each piece	-	-	7.2
5	Tensile Test a,b	1 time/batch	1 piece	GB/T 2975 longitudinal specimen	GB/T 228.1
6	Impact Test a,b	1 time/batch	1 piece	GB/T 2975 longitudinal	GB/T 229

				specimen	
7	Weld	Each piece	-	6.10	6.10
8	Zinc Coating Weight	1 time/batch	Appendix C	Appendix C	Appendix C
9	Zinc Coating Uniformity Test	1 time/batch	Appendix D	Appendix D	Appendix D
a When there are no relevant provisions in GB/T 2975, longitudinal samples shall be taken from the middle of the longest flat part of the product; the flat part shall not include welds or corners. b For rectangular sections, the sampling position shall be on the wide face (excluding welds). For open sections, the sampling position shall be selected at the middle of the widest face of the open section.					

8 检验规则

8 Inspection Rules

8.1 检查和验收

8.1 Inspection and Acceptance

型钢的检查和验收由供方质量检验部门进行。

The inspection and acceptance of the steel sections shall be carried out by the supplier's quality inspection department.

8.2 组批规则

8.2 Batching Rules

冷弯型钢应成批验收, 每批由同一牌号、同一原料批次、同一规格尺寸、同一工艺的产品组成。每批型钢的数量应符合如下规定:

Cold-formed steel sections shall be accepted in batches. Each batch shall consist of products of the same grade, same raw material batch, same specifications and dimensions,

and same manufacturing process. The quantity of each batch of steel sections shall comply with the following provisions:

外周长不大于 *400* mm 的产品每批重量不应超过 *60*t，外周长大于 *400* mm 的产品每批重量不应超过 100 t 。

For products with an outer perimeter not exceeding *400* mm , the weight of each batch shall not exceed *60*t ; for products with an outer perimeter exceeding *400* mm , the weight of each batch shall not exceed 100 t.

8.3 复验与判定规则

8.3 Re-inspection and Judgment Rules

8.3.1 镀锌型钢镀锌层重量检测结果的判定规则应符合:一根型钢 3 个试样的平均值不低于规定值时，则该批镀锌型钢镀锌层重量判定为合格；否则，该批镀锌型钢镀锌层重量判定为不合格。对于镀锌层重量不合格批, 允许复验, 复验时在不合格批中另取 2 根型钢, 每根镀锌型钢 3 个试样的平均值不低于规定值时，则该批镀锌型钢镀锌层重量判定为合格；任一根型钢 3 个试样的平均值低于规定值时，则该批镀锌型钢镀锌层重量判定为不合格。

.1 The judgment rules for the galvanized layer weight test results of galvanized steel sections shall comply with the following: if the average value of 3 specimens from one steel section is not lower than the specified value, the galvanized layer weight of the batch is judged as qualified; otherwise, it is judged as unqualified. For batches with unqualified galvanized layer weight, re-inspection is permitted. During re-inspection, 2 additional steel sections shall be taken from the unqualified batch. If the average value of 3 specimens from each steel section is not lower than the specified value, the galvanized layer weight of the batch is judged as qualified; if the average value of 3 specimens from any one steel section is lower than the specified value, the galvanized layer weight of the batch is judged as unqualified.

8.3.2 开口型钢其他检验项目的复验与判定规则应符合 GB/T 2101 的规定; 闭口型钢其他检验项目的复验与判定规则应符合 GB/T 2102 的规定。

.2 The re-inspection and judgment rules for other inspection items of open steel sections shall comply with the provisions of GB/T 2101; the re-inspection and judgment rules for other inspection items of closed steel sections shall comply with the provisions of GB/T 2102.

8.4 数值修约

8.4 Numerical Rounding

检验结果应采用修约值比较法判定,修约规则按 GB/T*8170* 的规定。

The inspection results shall be judged using the rounding value comparison method, and the rounding rules shall comply with the provisions of GB/T*8170* .

9 包装、标志、运输、贮存及质量证明书

9 Packaging, Marking, Transportation, Storage, and Quality Certificate

9.1 包装

9.1 Packaging

9.1.1 捆扎包装

9.1.1 Bundled Packaging

9.1.1.1 型钢一般采用捆扎包装交货，成捆包装的冷弯型钢一端需放置整齐。每捆应由同一批号的冷弯型钢组成，每捆最大重量应符合表 27 的规定。

.1.1 Steel sections are generally delivered in bundled packaging. One end of the bundled cold-formed steel sections must be aligned. Each bundle shall consist of cold-formed steel sections of the same batch number, and the maximum weight of each bundle shall comply with the provisions of Table 27.

表 27 捆扎重量规定

Table 27 Provisions for Bundle Weight

理论重量 kg/m	每捆最大重量 t
<1	1
1~<10	3
10~<>20	5
≥20	10

Theoretical weight kg/m	Max weight per bundle t
<1	1
1~<10	3
10~<>20	5
≥20	10

9.1.1.2 型钢应用包装用钢带或扎箍捆扎牢固。型钢长度不大于 *7* m 捆扎 3 处，*7* m 至 *10* m 捆扎 4 处，大于 *10* m 捆扎 5 处，两端处的捆扎位置距离端部不大于 *1* m 。

.1.2 Section steel shall be securely bundled with packaging steel strips or hoops. For section steel with a length not exceeding *7* m , it shall be bundled at 3 points; for lengths from *7* m to *10* m , it shall be bundled at 4 points; for lengths greater than *10* m , it shall be bundled at 5 points. The bundling positions at both ends shall be no more than *1* m from the ends.

9.1.1.3 闭口型钢打包时不应使用任何形式的垫杠。

.1.3 No form of dunnage shall be used when bundling closed section steel.

9.1.2 装箱

9.1.2 Boxing

9.1.2.1 表面质量要求较高的型钢应采用装箱包装，包装箱应坚固，用木制或钢制的均可使用。

.2.1 Section steel with high surface quality requirements shall be packed in boxes. The packing boxes shall be sturdy and may be made of wood or steel.

9.1.2.2 每箱应由同一批号的型钢组成。如有不同批号并箱时，每个批号应单独打捆再装入箱内。

.2.2 Each box shall consist of section steel from the same batch number. If different batch numbers are packed in the same box, each batch shall be bundled separately before being placed into the box.

9.1.2.3 每箱冷弯型钢的重量不应超过 4 t。

.2.3 The weight of each box of cold-formed section steel shall not exceed 4 t.

9.1.2.4 包装箱的外部应用包装用钢带或其他方法紧固。

.2.4 The exterior of the packing box shall be secured with packaging steel strips or other methods.

9.1.2.5 需采用装箱方式包装时供需双方在合同中注明。

.2.5 If boxing is required, it shall be specified in the contract by both the supplier and the purchaser.

9.1.3 其他

9.1.3 Others

对于理论重量大于 *20* kg/m 的型钢可散装交货。

Section steel with a theoretical weight greater than *20* kg/m may be delivered in bulk.

9.2 标志

9.2 Marking

9.2.1 整包标志

9.2.1 Marking for Bundles

捆扎或装箱的型钢每捆(箱)应挂有 2 个标牌，也可使用粘贴标签或其他不易脱落标志的方法。标牌或标签上面应注明供方名称和商标，产品规格、原料牌号、生产批号、本文件编号、重量、定尺长度、制造日期和供方质检部门的印记。

Each bundle (or box) of bundled or boxed section steel shall be attached with 2 tags; adhesive labels or other durable marking methods may also be used. The tags or labels shall indicate the supplier’s name and trademark, product specifications, raw material grade, production batch number, this document number, weight, fixed length, manufacturing date, and the stamp of the supplier’s quality inspection department.

9.2.2 散装标志

9.2.2 Marking for Bulk Delivery

散装交货的每根型钢应在靠近两个端部的表面粘贴标签或喷印标志, 标记应清晰明显, 不易脱落。 标记上应注明供方名称和商标，产品规格、原料牌号、生产批号、本文件编号、重量、定尺长度、制造日期和供方质检部门的印记。

Each piece of section steel delivered in bulk shall have a label attached or a mark sprayed on the surface near both ends. The marks shall be clear, visible, and durable. The marks shall indicate the supplier's name and trademark, product specifications, raw material grade, production batch number, this document number, weight, fixed length, manufacturing date, and the stamp of the supplier's quality inspection department.

9.2.3 镀锌型钢标志

9.2.3 Marking for Galvanized Section Steel

镀锌型钢除每捆粘贴标签外, 应逐根在型钢表面至少标识: 供方名称或商标、本文件编号、尺寸规格及可追溯性识别号(或代码)。

In addition to the label attached to each bundle, each piece of galvanized section steel shall be marked on its surface with at least the following: supplier name or trademark, document number, dimensions, and traceability identification number (or code).

示例:

Example:

尺寸为 *100* mm × *100* mm × *6000* mm 冷弯方形闭口镀锌型钢的标记为:

The designation for cold-formed square closed galvanized section steel with dimensions of *100* mm × *100* mm × *6000* mm is:

×××(商标)GB/T 6728—2025 F100×6000 mm××××(可追溯码)

×××(Trademark) GB/T 6728—2025 F100×6000 mm ××××(Traceability code)

尺寸为 *100* mm × *50* mm × *6000* mm 冷弯矩形闭口镀锌型钢的标记为:

The designation for cold-formed rectangular closed galvanized section steel with dimensions of *100* mm × *50* mm × *6000* mm is:

×××(商标)GB/T 6728—2025 J100×50×6000 mm ××××(可追溯码)

×××(Trademark) GB/T 6728—2025 J100×50×6000 mm ××××(Traceability code)

外径尺寸为 *21.3* mm，长度为 *6000* mm 圆形闭口镀锌型钢的标记为:

The designation for circular closed galvanized section steel with an outer diameter of *21.3* mm and a length of *6000* mm is:

X X X (商标) GB/T*6728 – 2025*DN*15* × *6000* mm X X X X (可追溯码)

X X X (Trademark) GB/T*6728 – 2025*DN*15* × *6000* mm X X X X (Traceability code)

尺寸为高度为 *160* mm ,中腿边长 *60* mm 、外卷边边长为 *20* mm ,壁厚为 *3* mm ,长度为 *6* m ,牌号为 Q355B 的冷弯开口内卷边镀锌槽钢标记为:

The designation for cold-formed open inward-lipped galvanized channel steel with a height of *160* mm , middle leg length of *60* mm , outer lip length of *20* mm , wall thickness of *3* mm , length of *6* m , and grade Q355B is:

×××(商标)GB/T 6728—2025 CN 160×60×20×3×6 000 mm—Q355B ××××(可追溯码)

×××(Trademark) GB/T 6728—2025 CN 160×60×20×3×6 000 mm—Q355B ××××(Traceability code)

9.3 运输

9.3 Transportation

型钢的运输及装卸应采取防护措施，不损伤型钢。

Protective measures shall be taken during the transportation, loading, and unloading of section steel to prevent damage.

9.4 贮存

9.4 Storage

型钢的贮存环境应避免潮湿、阴暗、空气不流通等。

The storage environment for section steel should avoid dampness, darkness, and poor air circulation.

9.5 质量证明书

9.5 Quality Certificate

闭口型钢的质量证明书应符合 GB/T 2102 的规定。开口型钢的质量证明书应符合 GB/T 2101 的规定。

The quality certificate for closed section steel shall comply with the provisions of GB/T 2102. The quality certificate for open section steel shall comply with the provisions of GB/T 2101.

附 录 A (资料性) 计算截面特性的公式

Appendix A (Informative) Formulas for calculating section properties

第 6 章中的表 1、表 2、表 3 给出了冷弯方形、矩形、圆形闭口型钢标准尺寸范围内的公称截面特性, 其他尺寸和厚度的结构用冷弯圆形、方形、矩形闭口型钢的公称截面特性可参考表 A.1、表 A. 2 中公式计算。

Tables 1, 2, and 3 in Chapter 6 provide the nominal section properties for cold-formed square, rectangular, and circular hollow sections within the standard size range. For nominal section properties of cold-formed circular, square, and rectangular hollow sections with other sizes and thicknesses, refer to the formulas in Tables A.1 and A.2.

表 A.1 圆形闭口型钢

Table A.1 Circular hollow sections

项目	符号	单位	计算公式
公称直径	D	mm	-
公称厚度	t	mm	-
公称内圆直径	d	mm	$d = D - 2t$
每米长度的表面积	As	mm^2/m	$A_s = \pi D \times 10^3$
截面面积	A	cm^2	$A = \pi(D^2 - d^2) /(4 \times 10^2)$
单位长度的理论重量	M	kg/m	$M = 0.785 \times A$
惯性矩	I	cm^4	$I = \pi(D^4 - d^4) /(64 \times 10^4)$
惯性半径	R	cm	$R = (I/A)^{1/2}$
弹性模数	Z	cm^3	$Z = (2I \times 10)/D$
塑性模数	S	cm^3	$S = (D^3 - d^3)/(6 \times 10^3)$

扭转常数	J	cm^4	$J = 2I$
扭转模数	C	cm^3	$C = 2Z$
Item	Symbol	Unit	Calculation formula
Nominal diameter	D	mm	-
Nominal thickness	t	mm	-
Nominal inner diameter	d	mm	$d = D - 2t$
Surface area per meter	As	mm^2/m	$A_s = \pi D \times 10^3$
Cross-sectional area	A	cm^2	$A = \pi(D^2 - d^2) /(4 \times 10^2)$
Theoretical weight per unit length	M	kg/m	$M = 0.785 \times A$
Moment of inertia	I	cm^4	$I = \pi(D^4 - d^4) /(64 \times 10^4)$
Radius of gyration	R	cm	$R = (I/A)^{1/2}$
Elastic modulus	Z	cm^3	$Z = (2I \times 10)/D$
Plastic modulus	S	cm^3	$S = (D^3 - d^3)/(6 \times 10^3)$
Torsional constant	J	cm^4	$J = 2I$
Torsional modulus	C	cm^3	$C = 2Z$

表　A.2 方形、矩形闭口型钢

Table　A.2 Square and rectangular hollow structural sections

项目	符号	单位	计算公式
短边边长	B_1	mm	-
长边边长	H	mm	-

公称壁厚	t	mm	-
公称外圆弧半径	R	mm	当 $t \leq 6$ mm, $R = 2.0t$ 当 6 mm $< t \leq 10$ mm, $R = 2.5t$ 当 $t > 10$ mm, $R = 3.0t$
公称内圆弧半径	r	mm	$r = R - \mathrm{t}$
单位长度的理论重量	M	kg/m	$M = 0.785 \times A$
截面面积	A	cm^2	$A = [2t(B + H - 2t) - (4 - \pi)(R^2 - r^2)]/10^2$
每米长度的表面积	As	mm^2/m	$A_s = 2(H + B - 4R + \pi R) \times 10^3$
Item	Symbol	Unit	Calculation formula
Short side length	B_1	mm	-
Long side length	H	mm	-
Nominal wall thickness	t	mm	-
Nominal outer arc radius	R	mm	When $t \leq 6$ mm, $R = 2.0t$ when 6 mm $< t \leq 10$ mm, $R = 2.5t$ when $t > 10$ mm, $R = 3.0t$
Nominal inner arc radius	r	mm	$r = R - \mathrm{t}$
Theoretical weight per unit length	M	kg/m	$M = 0.785 \times A$
Cross-sectional	A	cm^2	$A = [2t(B + H - 2t) - (4 - \pi)(R^2 - r^2)]/10^2$

area			
Surface area per meter	As	mm^2/m	$A_s = 2(H + B - 4R + \pi R) \times 10^3$

表 A.2 方形、矩形闭口型钢(续)

Table A.2 Square and rectangular hollow sections (cont.)

项目		符号	单位	计算公式	
面积的二次惯性矩	长轴(主轴)	I_x	cm^4	$I_x = 1/10^4[BH^3/12 - (B-2t)(H-2t)^3/12 - 4(I_z + A_z h_z^2) + 4(I_{\bar{s}} + A_{\bar{s}} h_{\bar{s}}^2)]$	式中: $I_z = [1/3 - \pi/16 - 1/3(12-3\pi)]R^4$ $A_z = (1-\pi/4)R^2$ $h_z = H/2 - [(10-3\pi)/(12-3\pi)]R$ (求 I_y 时用“ B ”代替“ H ”) $I_s = [1/3 - \pi/16 - 1/3(12-3\pi)]r^4$ $A_s = (1-\pi/4)r^2$ $h_{\S} = (H-2t)/2 - [(10-3\pi)/(12-3\pi)]r$ (求 I_y 时用“ B ”代替“ H ”)
	短轴(次轴)	I_y	cm^4	$I_v = 1/10^4[HB^3/12 - (H-2t)(B-2t)^3/12 - 4(I_z + A_z)\ h_z) + 4(I_{\tilde{s}} + A_{\tilde{s}} h_{\tilde{s}}^{\ 2})]$	
惯性半径		r_x	cm	$r_x = (I_x/A)^{1/2}$	
		r_y	cm	$r_y = (I_y/A)^{1/2}$	

弹性截面模数		W_x	cm^3	$W_x = (2I_z/H) \times 10$	
		W_y	cm^3	$W_y = (2I_y/B) \times 10$	
扭转常数		I_1	cm^4	$I_t = 1/10^4(t^3 \times h/3 + 2KA_h)$	
扭转模数		C_t	cm^3	$C_t = 10[I_t/(t + K/t)]$ 式中: $h = 2[(B-t)+(H-t)] - 2R_c(4-\pi)$ 其中, $R_c = (R+r)/2$ $A_h = (B-t)(H-t) - R_c^2(4-\pi)$ $K = 2A_h t/h$	
Item		Symbol	Unit	Formula	
Second moment of area	Major axis (principal axis)	I_x	cm^4	$I_x = 1/10^4[BH^3/12 - (B-2t)(H-2t)^3/12 - 4(I_z + A_z h_z^2) + 4(I_{\bar{s}} + A_{\bar{s}} h_{\bar{s}}^2)]$	Where: $I_z = [1/3 - \pi/16 - 1/3(12-3\pi)]R^4$ $A_z = (1-\pi/4)R^2$ $h_z = H/2 - [(10-3\pi)/(12-3\pi)]R$ (use " B " instead of " H " when calculating I_y) $I_s = [1/3 - \pi/16 - 1/3(12-3\pi)]r^4$ $A_s = (1-\pi/4)r^2$ $h_{\S} = (H-2t)/2 - [(10-3\pi)/(12-3\pi)]r$ (use " B " instead of " H " when calculating I_y)
	Minor axis (secondary axis)	I_y	cm^4	$I_v = 1/10^4[HB^3/12 - (H-2t)(B-2t)^3/12 - 4(I_z + A_z)\ h_z) + 4(I_{\tilde{s}} + A_{\tilde{s}} h_{\tilde{s}}^{\ 2})]$	
Radius of gyration		r_x	cm	$r_x = (I_x/A)^{1/2}$	

	r_y	cm	$r_y = (I_y/A)^{1/2}$
Elastic section modulus	W_x	cm^3	$W_x = (2I_z/H) \times 10$
	W_y	cm^3	$W_y = (2I_y/B) \times 10$
Torsional constant	I_1	cm^4	$I_t = 1/10^4(t^3 \times h/3 + 2KA_h)$
Torsional modulus	C_t	cm^3	$C_t = 10[I_t/(t + K/t)]$ Where: $h = 2[(B-t) + (H-t)] - 2R_c(4-\pi)$ Among which, $R_c = (R+r)/2$ $A_h = (B-t)(H-t) - R_c^2(4-\pi)$ $K = 2A_h t/h$

附录 B (规范性) 型钢的壁厚允许偏差

Appendix B (Normative) Permissible deviations in wall thickness of steel sections

B. 1 型钢的壁厚允许偏差应按表　B. 1 的规定执行。型钢壁厚仲裁时，应距离型钢端部 *50* mm 处的位置进行测量。

B.1 The permissible deviations in wall thickness of steel sections shall be in accordance with the provisions of Table　B.1. When arbitrating the wall thickness of steel sections, measurements shall be taken at a distance of *50* mm from the ends of the steel sections.

注:“壁厚”对开口型钢指的是“边厚度”。

Note: For open steel sections, "wall thickness" refers to "flange thickness".

表　B.1 型钢的壁厚允许偏差

Table　B.1 Permissible deviations in wall thickness of steel sections

单位为毫米

Unit: mm

序号	壁厚	壁厚允许偏差
1	>1.50~2.00	±0.23

2	>2.00~2.50	±0.28
3	>2.50~3.00	±0.29
4	>3.00~4.00	±0.30
5	>4.00~5.00	±0.32
6	>5.00~6.00	±0.34
7	>6.00~8.00	±0.39
8	>8.00~10.00	±0.44
9	> 10.00 ~ 12.50	±0.47
10	> 12.50 ~ 15.00	±0.51
11	> 15.00 ~ 18.00	±0.55
12	> 18.00 ~ 25.00	±1.10
13	> 25.00 ~ 40.00	±1.20
14	> 40.00 ~ 60.00	±1.30
No.	Wall thickness	Permissible deviation of wall thickness
1	>1.50~2.00	±0.23
2	>2.00~2.50	±0.28
3	>2.50~3.00	±0.29
4	>3.00~4.00	±0.30
5	>4.00~5.00	±0.32
6	>5.00~6.00	±0.34
7	>6.00~8.00	±0.39
8	>8.00~10.00	±0.44
9	> 10.00 ~ 12.50	±0.47

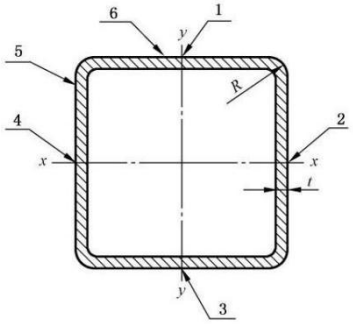
10	> 12.50 ~ 15.00	±0.51
11	> 15.00 ~ 18.00	±0.55
12	> 18.00 ~ 25.00	±1.10
13	> 25.00 ~ 40.00	±1.20
14	> 40.00 ~ 60.00	±1.30

B.2 型钢壁厚仲裁时的测量位置应符合如下要求。

B.2 The measurement positions for arbitration of section steel wall thickness shall meet the following requirements.

a)对方形或矩形型钢应在同一型钢、同一截面，按图 B.1(方形型钢)或图 B.2(矩形型钢)选取 5 处测量, 弯角及焊缝处除外, 取 5 个测量结果的平均值。该平均值与公称壁厚的偏差满足表 B.1 的规定即为合格。其中, 图 B. 1 和图 B. 2 中测量位置 6 , 应毗邻焊缝的热影响区域, 测量位置距离焊缝距离约等于 *2t* ，最大为 *40* mm ，最小为 *5* mm (绝对值)，且需避让开焊缝及内焊筋。

a) For square or rectangular section steel, 5 measurements shall be taken on the same section of the same steel member according to Figure B.1 (square section steel) or Figure B.2 (rectangular section steel), excluding corners and welds, and the average of the 5 measurement results shall be taken. The deviation of this average from the nominal wall thickness is qualified if it meets the requirements of Table B.1. Among them, measurement position 6 in Figure B.1 and Figure B.2 shall be adjacent to the heat-affected zone of the weld, with the distance from the weld approximately equal to *2t* , with a maximum of *40* mm and a minimum of *5* mm (absolute value), and must avoid the weld and internal weld bead.



标引序号说明:

Key to reference numbers:

1 —— 焊缝位置 (非测量位置)；

— Weld position (non-measurement position);

2 —— 方形型钢壁厚测量位置 (焊缝临边直线段中点)；

— Square section steel wall thickness measurement position (midpoint of the straight segment adjacent to the weld);

3 ——方形型钢壁厚测量位置(焊缝对侧)；

— Square section steel wall thickness measurement position (opposite side of the weld);

4 ——方形型钢壁厚测量位置(焊缝临边直线段中点)；

— Square section steel wall thickness measurement position (midpoint of the straight segment adjacent to the weld);

5 ——方形型钢壁厚测量位置(毗邻弯角处的直线段)；

— Square section steel wall thickness measurement position (straight segment adjacent to the corner);

6 ——方形型钢壁厚测量位置(焊缝热影响区域)；

— Square section steel wall thickness measurement position (weld heat-affected zone);

t ——壁厚；

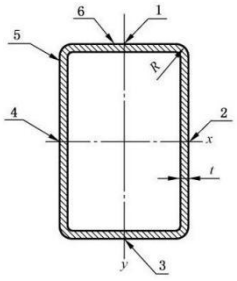
t — Wall thickness;

R ——外圆弧半径。

R — Outer arc radius.

B.1 方形型钢壁厚测量位置示意图

B.1 Schematic diagram of wall thickness measurement positions for square section steel



标引序号说明:

Key to reference numbers:

1 —— 焊缝位置 (非测量位置)；

— Weld position (non-measurement position);

2 —— 矩形型钢壁厚测量位置(焊缝临边直线段中点)；

— Rectangular section steel wall thickness measurement position (midpoint of the straight segment adjacent to the weld);

3 —— 矩形型钢壁厚测量位置(焊缝对侧)；

— Rectangular section steel wall thickness measurement position (opposite side of the weld);

4 —— 矩形型钢壁厚测量位置 (焊缝临边直线段)；

—— Rectangular steel wall thickness measurement position (straight section adjacent to the weld);

5 —— 矩形型钢壁厚测量位置 (毗邻弯角处的直线段)；

—— Rectangular steel wall thickness measurement position (straight section adjacent to the corner);

6 —— 矩形型钢壁厚测量位置(焊缝热影响区域)；

—— Rectangular steel wall thickness measurement position (weld heat-affected zone);

t ——壁厚；

t ——wall thickness;

R ——外圆弧半径；

R ——outer arc radius;

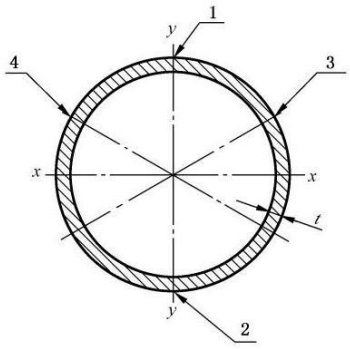
B.2 矩形型钢壁厚测量位置示意图

B.2 Schematic diagram of wall thickness measurement positions for rectangular steel

b)对圆形型钢应选择同一圆形型钢、同一截面，按图 B. 3 选取 3 处测量，焊缝及热影响区除外，取 3 个测量结果的平均值。该平均值与公称壁厚的偏差满足表 B. 1 的规定即为合格。

b) For circular steel, select the same circular steel and the same cross-section, take 3 measurements according to Figure B.3, excluding the weld and heat-affected zone, and take the average of the 3 measurement results. The deviation between this average value and

the nominal wall thickness shall comply with the provisions of Table B.1 to be considered qualified.



标引序号说明:

Key to reference numbers:

1-一焊缝位置(非测量位置);

-weld position (non-measurement position);

2-一圆形型钢壁厚测量位置(焊缝对侧，选择适当量具测量);

-circular steel wall thickness measurement position (opposite side of the weld, measure with appropriate measuring tools);

3-一圆形型钢壁厚测量位置(焊缝对侧按外圆周均布三点的右侧测量点);

-circular steel wall thickness measurement position (right measurement point of the three points evenly distributed on the outer circumference opposite the weld);

4-一圆形型钢壁厚测量位置(焊缝对侧按外圆周均布三点的左侧测量点)。

-circular steel wall thickness measurement position (left measurement point of the three points evenly distributed on the outer circumference opposite the weld).

B.3 圆形型钢壁厚测量位置示意图

B.3 Schematic diagram of wall thickness measurement positions for circular steel

c)对开口型钢，应选择同一开口型钢、同一截面测量所有非自由边直线段中心部位，取平均值。 该平均值与公称边厚度的偏差满足表 B. 1 的规定即为合格。

c) For open steel, select the same open steel and the same cross-section to measure the center of all non-free edge straight sections, and take the average value. The deviation between this average value and the nominal edge thickness shall comply with the provisions of Table B.1 to be considered qualified.

附录 C (规范性) 镀锌层的重量测定 氯化锑法

Appendix C (Normative) Determination of zinc coating weight - Antimony trichloride method

C.1 试样的准备

C.1 Preparation of test specimens

型钢镀锌后应进行镀锌层的重量测定。从每批中任取 1 根型钢, 在每根型钢的两端和中间各截取 *30* mm ~ *60* mm (视规格大小决定)长的样段作为试样,试样的表面不应有粗糙面和锌瘤存在。试样表面应用纯净的溶剂如苯、石油苯、三氯乙烯或四氯化碳等洗净, 再用乙醇淋洗，清水洗净。

After galvanizing, the weight of the zinc coating on the steel sections shall be determined. Take 1 steel section at random from each batch, and cut a sample segment of *30* mm ~ *60* mm (depending on the size) from each end and the middle of each steel section. The surface of the samples shall be free of roughness and zinc nodules. The sample surface shall be cleaned with a pure solvent such as benzene, petroleum benzene, trichloroethylene, or carbon tetrachloride, then rinsed with ethanol and cleaned with clear water.

C.2 试验溶液的配制

C.2 Preparation of Test Solution

将 *32* g 三氯化锑 ($SbCl_3$) 或 *20* g 三氧化二锑 (Sb_2O_3) 溶于 *1000* mL 密度为 *1.18* kg/dm^3 以上的盐酸中配制成原液。试验前将 *5* mL 原液加入 *100* mL 密度为 *1.18* kg/dm^3 以上的盐酸中，作为试验溶液。

Dissolve *32* g of antimony trichloride ($SbCl_3$) or *20* g of antimony trioxide (Sb_2O_3) in *1000* mL of hydrochloric acid with a density of *1.18* kg/dm^3 or higher to prepare the stock solution. Before the test, add *5* mL of the stock solution to *100* mL of hydrochloric acid with a density of *1.18* kg/dm^3 or higher to serve as the test solution.

C.3 试验程序

C.3 Test Procedure

C.3.1 用天平称量试样重量，修约到最邻近的 *0.01* g 。

C.3.1 Weigh the sample using a balance, rounding to the nearest *0.01* g .

C.3.2 将试样浸入试验溶液中，每次浸入一个试样，液面应高于试样。在测量过程中溶液温度应不高于 *38* °C 。

C.3.2 Immerse the sample into the test solution, one sample at a time, ensuring the liquid level is above the sample. The temperature of the solution shall not exceed *38* °C during the measurement process.

C.3.3 当试样在溶液中氢的发生变得很少, 且镀锌层已经消失时, 取出试样。将试样在清水中冲洗并用棉花或净布擦干，待完全干燥后再在天平上称重，修约到最邻近的 0.01 g。

C.3.3 When the evolution of hydrogen from the sample in the solution becomes minimal and the zinc coating has disappeared, remove the sample. Rinse the sample in clear water and wipe it dry with cotton or a clean cloth. After it is completely dry, weigh it on a balance, rounding to the nearest 0.01 g.

C.3.4 试验溶液在能容易地去除锌层的情况下，可重复使用。

C.3.4 The test solution may be reused as long as it can easily remove the zinc coating.

C.4 试验操作方法

C.4 Test Operation Methods

C.4.1 圆形镀锌型钢

C.4.1 Circular Galvanized Steel Sections

C.4.1.1 对于公称外径不大于 219.1 mm 圆形镀锌型钢，在抽样产品(取样钢管)的头、中、尾部各截取 (*60* ± *2*)mm 长的管段作为试样[见图 C.1 中 a)]，其中头、尾端样坯应在距管端 *500* mm 以外的部位截取。试样的表面不应有粗糙面和锌瘤存在。

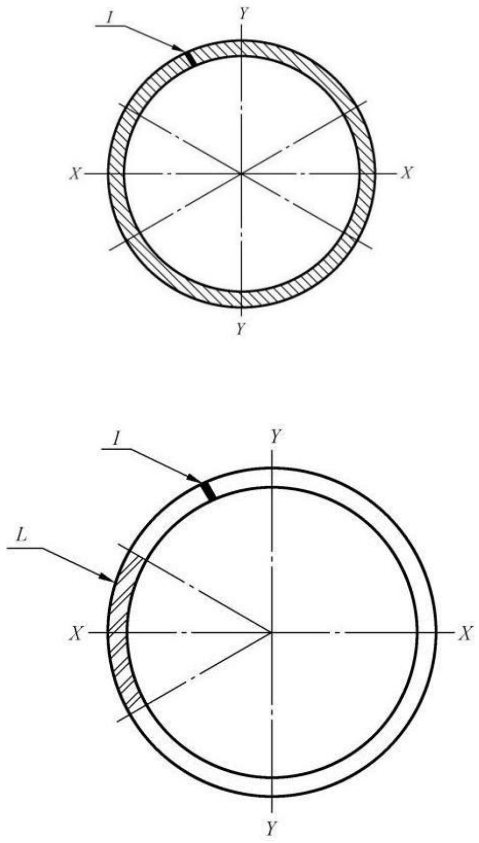
C.4.1.1 For circular galvanized steel sections with a nominal outer diameter not exceeding 219.1 mm, cut a pipe segment of (*60* ± *2*)mm in length from the head, middle, and tail of the sampled product (sampled steel pipe) as a sample [see a) in Figure C.1]. The head and tail sample blanks shall be cut from positions at least *500* mm away from the pipe ends. The surface of the samples shall be free of roughness and zinc nodules.

C.4.1.2 对于公称外径 > *219.1* mm ~ *407* mm 的圆形镀锌型钢，再按 C.4.1.1 的规定截取 (*30* ± *2*)mm 长样坯 (管段)后, 可在样坯上避开焊缝任意截取弧面长度为 1/8 圆周长度的瓦块状长条作为试样[见图 C.1 中 b)]。

C.4.1.2 For circular galvanized sections with a nominal outside diameter of > *219.1* mm ~ *407* mm , after cutting a sample blank (pipe segment) of (*30* ± *2*)mm length in accordance with C.4.1.1, a tile-shaped strip with an arc length of 1/8 of the circumference may be cut from the blank, avoiding the weld [see b) in Figure C.1].

C.4.1.3 对于公称外径大于 *407* mm 的圆形镀锌型钢，由供需双方协商。

C.4.1.3 For circular galvanized sections with a nominal outside diameter greater than *407* mm , it shall be negotiated by the supplier and the purchaser.



a) 全截面试样 b) 瓦块状试样

a) Full cross-section specimen b) Tile-shaped specimen

标引符号说明:

Key to symbols:

I 一一焊缝位置 (仅做示意，不代表实际位置)；

I—Weld position (schematic only, does not represent actual position);

L- 一瓦块状试样。

L—Tile-shaped specimen.

图　C.1 镀锌层重量测定取样示意图

Figure　C.1 Schematic diagram of sampling for galvanized layer weight determination

C.4.1.4 管段试样镀锌层剥离后，应在试样端部两个互相垂直的方向上分别测量外径和内径，分别取其平均值作为实际外径和内径，修约到最邻近的 0.01 mm。

C.4.1.4 After the galvanized layer of the pipe segment specimen is stripped, the outside diameter and inside diameter shall be measured in two mutually perpendicular directions at the ends of the specimen, and their respective averages shall be taken as the actual outside and inside diameters, rounded to the nearest 0.01 mm.

C.4.1.5 对于瓦块试样状, 在按　C.1 截取管段后, 在管段的端部两个互相垂直的方向上分别测量外径和内径，分别取其平均值作为实际外径和内径，修约到最邻近的 0.01 mm。

C.4.1.5 For tile-shaped specimens, after cutting the pipe segment according to　C.1, the outside diameter and inside diameter shall be measured in two mutually perpendicular directions at the ends of the pipe segment, and their respective averages shall be taken as the actual outside and inside diameters, rounded to the nearest 0.01 mm.

C.4.2 方形、矩形镀锌型钢

C.4.2 Square and rectangular galvanized sections

C.4.2.1 试样锌层剥离后，方形型钢应在试样端部两个互相垂直的方向上分别测量边长，分别取测量平均值作为实际边长，修约到最邻近的 *0.1* mm 。

C.4.2.1 After the zinc layer of the specimen is stripped, the side length of square sections shall be measured in two mutually perpendicular directions at the ends of the specimen, and the average of the measurements shall be taken as the actual side length, rounded to the nearest *0.1* mm .

C.4.2.2 试样锌层剥离后，矩形型钢应在试样端部两个短(长)边的平行方向上分别测量短(长)边长度,分别取测量平均值作为实际短 (长)边长度,修约到最邻近的 *0.1* mm 。

C.4.2.2 After the zinc layer of the specimen is stripped, the short (long) side length of rectangular sections shall be measured in the parallel directions of the two short (long) sides

at the ends of the specimen, and the average of the measurements shall be taken as the actual short (long) side length, rounded to the nearest *0.1* mm .

C.4.2.3 对于边长不大于 *300* mm 的方形、矩形镀锌型钢,在抽样产品 (取样型钢) 的头、中、尾部各截取 (*60* ± *2*)mm 长的管段作为试样,其中头、尾端样坯应在距管端 *500* mm 以外的部位截取。试样的表面不应有粗糙面和锌瘤存在。

C.4.2.3 For square and rectangular galvanized sections with a side length not greater than *300* mm , pipe segments of (*60* ± *2*)mm length shall be cut from the head, middle, and tail of the sampled product (sampled section) as specimens, among which the head and tail blanks shall be cut at a position at least *500* mm away from the pipe ends. The surface of the specimen shall be free of rough areas and zinc nodules.

C.4.2.4 对于边长 > *300* mm ~ *400* mm 的方形、矩形镀锌型钢,再按 C.4.2.3 的规定截取 (*30* ± *2*)mm 长样坯 (管段)后, 按图 C. 2 所示将方形、矩形型钢剖分成 4 等份, 取任意两份作为试样, 但需避开有焊缝的试件。

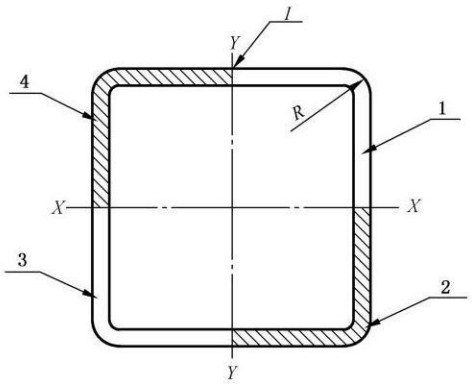
C.4.2.4 For square and rectangular galvanized sections with a side length of > *300* mm ~ *400* mm , after cutting a sample blank (pipe segment) of (*30* ± *2*)mm length in accordance with C.4.2.3, the square or rectangular section shall be divided into 4 equal parts as shown in Figure C.2, and any two parts shall be taken as specimens, provided that specimens containing welds are avoided.

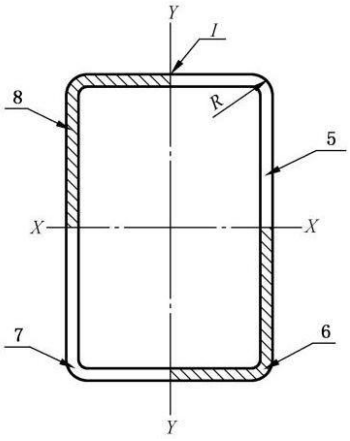
C.4.2.5 对于边长大于 *400* mm 的方形、矩形镀锌型钢，由供需双方协商。

C.4.2.5 For square and rectangular galvanized sections with side lengths greater than *400* mm , it shall be negotiated by the supplier and the purchaser.

C.4.2.6 矩形型钢边长以长边为准。

C.4.2.6 The side length of rectangular sections shall be based on the longer side.





a) 方形型钢 b) 矩形型钢

a) Square section b) Rectangular section

标引序号说明:

Key to index numbers:

I ——焊缝位置(仅做示意，不代表实际位置);

I — Weld position (for illustration only, does not represent the actual position);

R ——外圆弧半径;

R — Outer arc radius;

1、2、3、4、5、6、7、8 —— 试件编号。

, 2, 3, 4, 5, 6, 7, 8 — Specimen numbers.

图 C.2 方形或矩形型钢四等分示意图

Figure C.2 Schematic diagram of quartering square or rectangular sections

C.5 试验结果计算

C.5 Calculation of test results

C.5.1 方形型钢试样的总表面积按公式 (C.1) 计算:

C.5.1 The total surface area of square section specimens shall be calculated according to formula (C.1):

$$A_s = 2(4B - 8R + 2\pi R - \pi t)l/10^6 \qquad \text{(C. 1)}$$

式中:

Where:

A_s ——试样剥离锌层后的总表面积，单位为平方米 (m^2) ;

A_s — Total surface area of the specimen after stripping the zinc layer, in square meters (m^2) ;

B — 一试样剥离锌层后的边长,单位为毫米 (mm) ;

B — — Side length of the specimen after stripping the zinc layer, in millimeters (mm) ;

R —— 实测外圆弧半径，单位为毫米 (mm)；

R — Measured outer arc radius, in millimeters (mm);

π ——圆周率，取 3.1416 ；

π — Pi, taken as 3.1416;

t — 一试样的实测壁厚,单位为毫米 (mm) ;

t — — Measured wall thickness of the specimen, in millimeters (mm) ;

l ——试样的实测长度，单位为毫米 (mm) 。

l — measured length of the specimen, in millimeters (mm) .

C.5.2 矩形型钢试样的总表面积按公式(C.2)计算:

C.5.2 The total surface area of rectangular steel specimens shall be calculated according to formula (C.2):

$$A_r = 2(2B + 2H - 8R + 2\pi R - \pi t)l/10^6 \qquad (C.2)$$

式中:

Where:

A_r ——试样剥离锌层后的总表面积，单位为平方米 (m^2) ；

A_r — total surface area of the specimen after stripping the zinc layer, in square meters (m^2) ;

B ——试样剥离锌层后的宽边,单位为毫米 (mm) ；

B — width of the specimen after stripping the zinc layer, in millimeters (mm) ;

H ——试样剥离锌层后的长边,单位为毫米 (mm) ;

H — length of the specimen after stripping the zinc layer, in millimeters (mm) ;

R ——实测外圆弧半径，单位为毫米 (mm) ；

R — measured outer arc radius, in millimeters (mm) ;

π ——圆周率，取 3.1416 ；

π — pi, taken as 3.1416;

t ——试样的实测壁厚,单位为毫米 (mm) ；

t — measured wall thickness of the specimen, in millimeters (mm) ;

l ——试样的实测长度，单位为毫米 (mm) 。

l — measured length of the specimen, in millimeters (mm) .

C.5.3 对于公称外径不大于 219.1 mm 的圆形镀锌型钢，试样的总表面积按公式 (C.3) 计算。对于公称外径>219.1 mm～407 mm 的圆形镀锌型钢，总表面积可采用 A_c 乘以 1/8 计算。

C.5.3 For circular galvanized steel sections with a nominal outer diameter not greater than 219.1 mm, the total surface area of the specimen shall be calculated according to formula (C.3). For circular galvanized steel sections with a nominal outer diameter > 219.1 mm to 407 mm, the total surface area may be calculated by multiplying A_c by 1/8.

$$A_c = \pi(D + d)l/10^6 \qquad \text{(C. 3)}$$

式中:

Where:

A_c ——试样剥离锌层后的总表面积，单位为平方米 (m^2) ；

A_c — total surface area of the specimen after stripping the zinc layer, in square meters (m^2) ;

D ——试样剥离锌层后的实测外径，单位为毫米 (mm) ；

D — measured outer diameter of the specimen after stripping the zinc layer, in millimeters (mm) ;

d ——试样剥离锌层后的实测内径，单位为毫米 (mm) ；

d — measured inner diameter of the specimen after stripping the zinc layer, in millimeters (mm) ;

π ——圆周率，取 3.1416 ；

π — pi, taken as 3.1416;

l — —试样的实测长度,单位为毫米 (mm) 。

l — — measured length of the specimen, in millimeters (mm) .

C.5.4 试样二次称重后减少的重量按公式 (C.4) 计算:

C.5.4 The weight loss of the specimen after the second weighing shall be calculated according to formula (C.4):

$$\Delta m = m_1 - m_2 \qquad \text{(C. 4)}$$

式中:

where:

Δm ——二次称重后试样减少的重量,单位为克 (g) ;

Δm — weight loss of the specimen after the second weighing, in grams (g) ;

m_1 ——试样在剥离锌层前的重量，单位为克 (g) ;

m_1 — weight of the specimen before stripping the zinc layer, in grams (g) ;

m_2 ——试样在剥离锌层后的重量，单位为克 (g) 。

m_2 — weight of the specimen after stripping the zinc layer, in grams (g) .

C.5.5 镀锌层重量按公式(C.5)计算:

C.5.5 The weight of the zinc coating shall be calculated according to formula (C.5):

$m_A = \Delta m/A_s$ (或 A_r 或 A_c)

$m_A = \Delta m/A_s$ (or A_r or A_c)

(C. 5)

式中:

Where:

m_A ——镀锌层的重量，单位为克每平方米 (g/m^2) ;

m_A — weight of the galvanized layer, in grams per square meter (g/m^2) ;

Δm ——二次称重后试样减少的重量，单位为克 (g) ;

Δm — weight loss of the specimen after the second weighing, in grams (g) ;

A_s (或 A_r 或 A_c) ——试样剥离锌层后的总表面积，单位为平方米 (m^2) 。

A_s (or A_r or A_c) — total surface area of the specimen after stripping the galvanized layer, in square meters (m^2) .

C. 5.6 镀锌型钢镀锌层厚度近似值按公式 (C.6) 计算。

C. 5.6 The approximate thickness of the galvanized layer for galvanized steel sections shall be calculated according to formula (C.6).

$$e = m_A/7.14 \qquad \text{(C. 6)}$$

式中:

Where:

m_A ——镀锌层的重量，单位为克每平方米 (g/m^2)。

m_A — weight of the galvanized layer, in grams per square meter (g/m^2).

附录 D (规范性) 镀锌层的均匀性试验 硫酸铜浸渍法

Appendix D (Normative) Uniformity Test of Galvanized Layer Copper Sulfate Immersion Method

D.1 试样的准备

D.1 Preparation of Specimens

型钢镀锌后应进行镀锌层的均匀性试验。从每批中任取 1 根型钢, 在每根型钢的一端各截取不小于 *150* mm 长的样段作为试样。试样表面的油污等应先去除,再用清洁的软布擦干净。

After galvanizing, the steel sections shall be subjected to a uniformity test of the galvanized layer. Take one steel section at random from each batch, and cut a sample segment of not less than *150* mm in length from one end of each section as the specimen. Oil and other contaminants on the surface of the specimen shall be removed first, and then wiped clean with a soft cloth.

D.2 试验溶液的配制

D.2 Preparation of Test Solution

D.2.1 将 *33* g 结晶硫酸铜 ($CuSO_4 \cdot 5H_2O$) 或约 *36* g 工业硫酸铜溶解于 *100* mL 的蒸馏水中,再加入过量的粉状氢氧化铜[Cu $(OH)_2$]或碱性碳酸铜(化学纯)[$CuCO_3$-Cu $(OH)_2$]，以中和游离酸。如加入氢氧化铜，每 10 L 溶液中约为 10g，如加入碱性碳酸铜，每 10 L 溶液中约为 12g，根据容器底部的沉淀来判断是否过量。同时充分搅拌，然后静置 *24* h ，再过滤澄清。如以粉状氧化铜 (CuO) 代替氢氧化铜时,则每 10 L 溶液约为 *8* g ,但应静置 *48* h 后过滤。

D.2.1 Dissolve *33* g of crystalline copper sulfate ($CuSO_4 \cdot 5H_2O$) or approximately *36* g of industrial copper sulfate in *100* mL of distilled water, then add an excess of powdered copper hydroxide [Cu $(OH)_2$] or basic copper carbonate (chemically pure) [$CuCO_3$-Cu $(OH)_2$] to neutralize the free acid. If copper hydroxide is added, use approximately 10g per 10 L of solution; if basic copper carbonate is added, use approximately 12g per 10 L of solution. The excess can be judged by the precipitate at the bottom of the container. Stir thoroughly, let stand for *24* h , and then filter until clear. If powdered copper oxide (CuO) is

used instead of copper hydroxide, use approximately *8* g per 10 L of solution, but let stand for *48* h before filtering.

D.2.2 制成的试验溶液密度在室温时为 *1.170* kg/dm^3 ~ *1.180* kg/dm^3 。

D.2.2 The density of the prepared test solution at room temperature shall be *1.170* kg/dm^3 ~ *1.180* kg/dm^3 .

D.3 试验容器

D.3 Test Container

D.3.1 试验容器应选择相对硫酸铜呈惰性的材料。

D.3.1 The test container shall be made of materials that are inert to copper sulfate.

D.3.2 容器的内部尺寸应使试样浸入溶液后与容器的任何一壁至少保持 *25* mm 的间隙，容器底部除外。

D.3.2 The internal dimensions of the container shall be such that after the specimen is immersed in the solution, a clearance of at least *25* mm is maintained from any wall of the container, except for the bottom.

D.4 试验程序

D.4 Test Procedure

D.4.1 试样应以切割端向下，浸渍在溶液中的长度应不小于 *100* mm ，在硫酸铜溶液中连续浸渍 3 次。 试验过程中,试样及溶液温度应保持 *20*°C ~ *25*°C ,不准许搅动。试样每次浸渍时间需持续 *1* min ,取出后应立即在流动的清水中清洗，并用软刷将黑色沉淀物全部清理干净，再用软布擦干。

D.4.1 The specimen shall be immersed with the cut end facing downward to a depth of not less than *100* mm in the copper sulfate solution for 3 consecutive immersions. During the test, the temperature of the specimen and the solution shall be maintained at *20*°C ~ *25*°C , and no agitation is permitted. Each immersion of the specimen shall last for *1* min ; after removal, it shall be immediately rinsed in running clean water, and all black deposits shall be completely removed with a soft brush, then dried with a soft cloth.

D.4.2 除最后一次浸渍外，试样应立即重新浸入溶液。

D.4.2 Except for the final immersion, the specimen shall be immediately re-immersed in the solution.

D.4.3 试验溶液经 20 次浸渍试样后应废弃，不应使用。

D.4.3 The test solution shall be discarded after 20 immersions and shall not be reused.

D.5 试验结果的判定

D.5 Evaluation of Test Results

D.5.1 试样经过连续 3 次浸渍，并经最后的清洗和擦干，不应呈现红色(镀铜色)。但在距试样末端 25 mm 以内及离溶液液面 10 mm 以内部位有红色金属铜沉积除外。

D.5.1 After 3 consecutive immersions and the final rinsing and drying, the specimen shall not exhibit a red color (copper-plated appearance). However, red metallic copper deposits within 25 mm from the end of the specimen and within 10 mm from the solution surface are excluded.

D.5.2 如经上述试验, 在试样上呈现红色金属铜沉积, 其附着性可用下面方法判定: 在 1:10 盐酸溶液中浸入 15s 后立即在流动的清水中擦洗，如其底面重现锌层，试样判为合格。

D.5.2 If red metallic copper deposits appear on the specimen after the above test, their adhesion may be determined by the following method: immerse in a 1:10 hydrochloric acid solution for 15s, then immediately rinse and scrub in running clean water; if the zinc layer reappears on the underlying surface, the specimen is considered acceptable.

D.5.3 对红色金属铜沉积下的底面是否存在锌层有怀疑时，可将红色金属铜沉积刮除，在该处滴一至数滴稀盐酸, 若有锌层存在, 则有活泼氢气产生。此外, 也可用锌的定性试验来判定, 即用小片滤纸或吸液管等把滴下来的酸液收集起来，用氢氧化铵中和，使其呈弱酸性。在此溶液中滴加硫化钠溶液，看是否生成白色硫化锌沉淀来判定。

D.5.3 If there is doubt about the presence of a zinc layer under the red metallic copper deposit, the red metallic copper deposit may be scraped off and one or more drops of dilute hydrochloric acid applied to the spot; if a zinc layer is present, active hydrogen gas will be generated. Alternatively, a qualitative test for zinc may be used: collect the dropped acid solution using a small piece of filter paper or a pipette, neutralize it with ammonium hydroxide to make it weakly acidic, add a drop of sodium sulfide solution to this solution, and observe whether a white zinc sulfide precipitate is formed.