



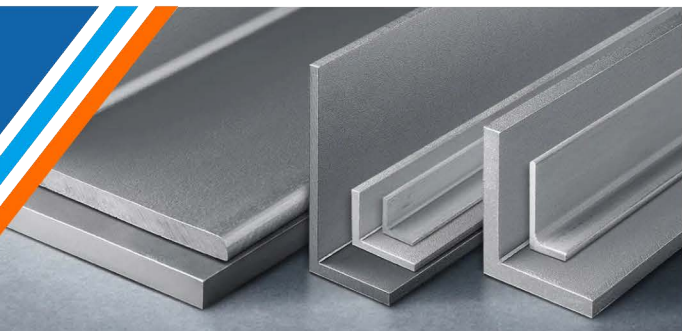
## STAINLESS STEEL PROFILE

从1996年开始专注于工程项目的不锈钢产品的综合供应商  
Integrated Supplier of Stainless Steel Products Focus on Engineering  
Projects Since 1996.



 安聯鋼鐵集團  
ALLIANZ STEEL GROUP

 Ronsco





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## 企业文化 Enterprise Culture

### 愿景: Vision:

安精神之本, 联财富之源

Keep the peace of mental, link the source of wealth.

### 使命: Mission:

与世界共享中国造, 为客户利益而努力创新

Share made in China with the world and strive to innovate for customers' benefit.

### 价值观: Values:

激情、敬业、创新、进取、诚信、求实、利他、共赢

Passionate, Dedicated, Innovative, Enterprising, Altruistic, Win-win, Honest, Truth-seeking.

### 宗旨: Aim:

为客户提供独特价值

Provide unique value for customers.





## 安聯鋼鐵集團

安聯鋼鐵集團以“与世界共享中国造,为客户利益而努力创新”为使命,通过不断创新业务模式,打造产品品牌,有效地促进了产业发展,深耕钢铁产业、先进材料、先进智造、国际货运、矿业、文化传媒等六大业务板块,是中国知名的综合性钢铁产业集团、世界领先的新材料,开发商和钢材采购综合服务商。截至2020年底,集团资产总额80多亿元,年营业收入40多亿元,员工总数3800余人。

下设十个子公司及海外代表处、五个生产基地、三个研究院,是中国民营企业工业100强、国家技术创新型企业、国家重点高新技术企业、国家绿色示范工厂、全国AAA级质量信用企业、最佳雇主100强企业。

## ALLIANZ STEEL GROUP

With the mission of "Share made in China with the world and strive to innovate for interests of customers. Allianz Steel Group has effectively promoted the development of the industry by continuously innovating business models and building product brands. It is a well-known comprehensive steel industry group in China, a world-leading developer of new materials and a comprehensive service provider of steel procurement. Group has cultivated six business sectors, including steel industry, advanced materials, advanced manufacturing, international freight, mining and cultural media. By the end of 2020, the group had total assets of over CNY 8 billion, annual income over CNY 4 billion and over 3,800 employees.

Allianz Steel Group has ten subsidiaries and overseas representative offices, five production bases and three research institutes, and it is one of the top 100 private enterprises in China, a national technical innovation enterprise, a national key high-tech enterprise, a national green demonstration manufacturer, a national AAA-grade quality credit enterprise and a top 100 best employer.

## 安联金属

湖南安联金属制品有限公司成立于1996年，RONSCO是2014年注册的商标。湖南安联是安联钢铁集团旗下专业生产不锈钢管子管件、库存不锈钢卷板、配套不锈钢加工、销售不锈钢产品到国内外客户子公司，致力于为全球客户提供不锈钢高端制造以及配套服务。公司在中国华中地区美丽的湖南长沙设有国际营销部；在不锈钢产地无锡设有分公司，公司严格按照ISO 9001质量管理体系进行现场管理，先后获得ISO 9001、CE、AAAAA信用等级认证等，产品得到SGS、BV、LR、TUV、INTERTEK等国际权威第三方机构的检验和认可。

湖南安联以“为客户提供独特价值”为宗旨，充分发挥本地的不锈钢材料资源优势和强大的加工平台，为各行各业制造业提供“一站式”配套服务解决方案，不断拓展延伸产业链，提升自身价值。作为一个在不锈钢领域有26年以上经验的供应商，我们拥有专业服务团队能够提供高标准的产品技术支持，准时合格的产品交付，专业的产品运输和清关服务，可靠的售后等全方位的服务。未来，湖南安联将继续以全球化视野，进一步深耕不锈钢行业，以技术创新继续推进信息化、自动化、智能化制造、网络化服务好和布局，深入行业细分领域，致力成为细分领域的行业标杆，增强服务能力，为社会创造价值。湖南安联始终坚持“以客户为中心”的经营理念，竭尽全力满足客户的要求，追求与客户合作双赢。湖南安联是您值得信赖的不锈钢产品一站式供应商！

## ABOUT ALLIANZ

Hunan Allianz Metal Products Co., Ltd was established in 1996. RONSCO is a registered trademark in 2014. Hunan Allianz is a subsidiary company of Allianz Steel Group specializing in the production of stainless steel pipe fittings, stainless steel coil in stock, stainless steel processing, and sales of stainless steel products to customers domestic and overseas. We are committed to providing high-level stainless steel manufacturing and supporting services to customers worldwide.

We have an international marketing department in Hunan Province, the central southern area of China,, and a branch office in Wuxi City. The company is strictly under the ISO 9001 quality management system for on-site management, with ISO 9001, CE, AAAAA credit rating certification, etc., Products received inspection and approval of third parties like SGS, BV, LR, TUV, Intertek, and other international authority of the third party inspection and approval.

Hunan Allianz takes "Provide unique value to customers." as our purpose, and gives full play to the local advantages of stainless steel material resources and a powerful processing platform, to provid One-stop service solution for all kinds of manufacturing industries, constantly expanding and extending the industrial chain, enhancing the value.

As a supplier with more than 26 years of experience in the stainless steel field, we have a professional service team to provide high standards of technical support, timely and qualified product delivery, professional product transportation and customs clearance services, reliable after-sales, and other full range of services.

In the future, Hunan Allianz will continue to further cultivate the stainless steel industry with a global vision, and continue to promote information, automation, intelligent manufacturing, network services and layout with technological innovation, in-depth industry segmentation field, committed to becoming a segmentation of the industry benchmark field, enhancing service capacity and creating value for society.

Hunan Allianz always adheres to the "Customer-oriented" business philosophy, making every effort to meet customer requirements and holding the pursuit of win-win cooperation with customers. Hunan Allianz is your reliable one-stop supplier of stainless steel products!



26年不锈钢供应经验  
26 YEARS EXPERIENCE IN  
STAINLESS STEEL SUPPLING



10年阿里巴巴金牌供应商  
10 YEARS ALIBABA GOLDEN SUPPLIER

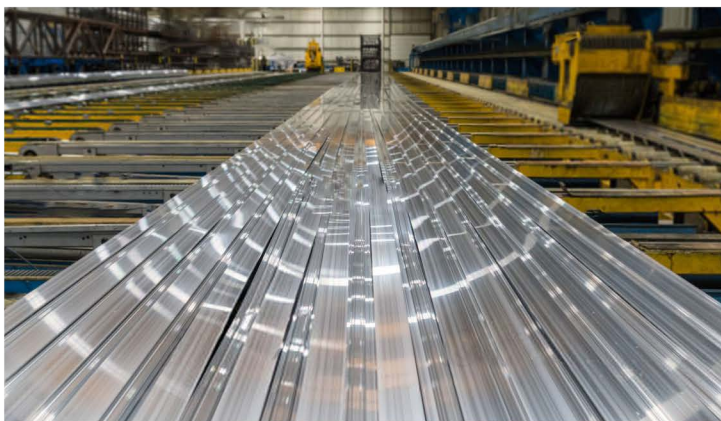


专业的国际贸易团队  
PROFESSIONAL INTERNATIONAL  
TRADE TEAM

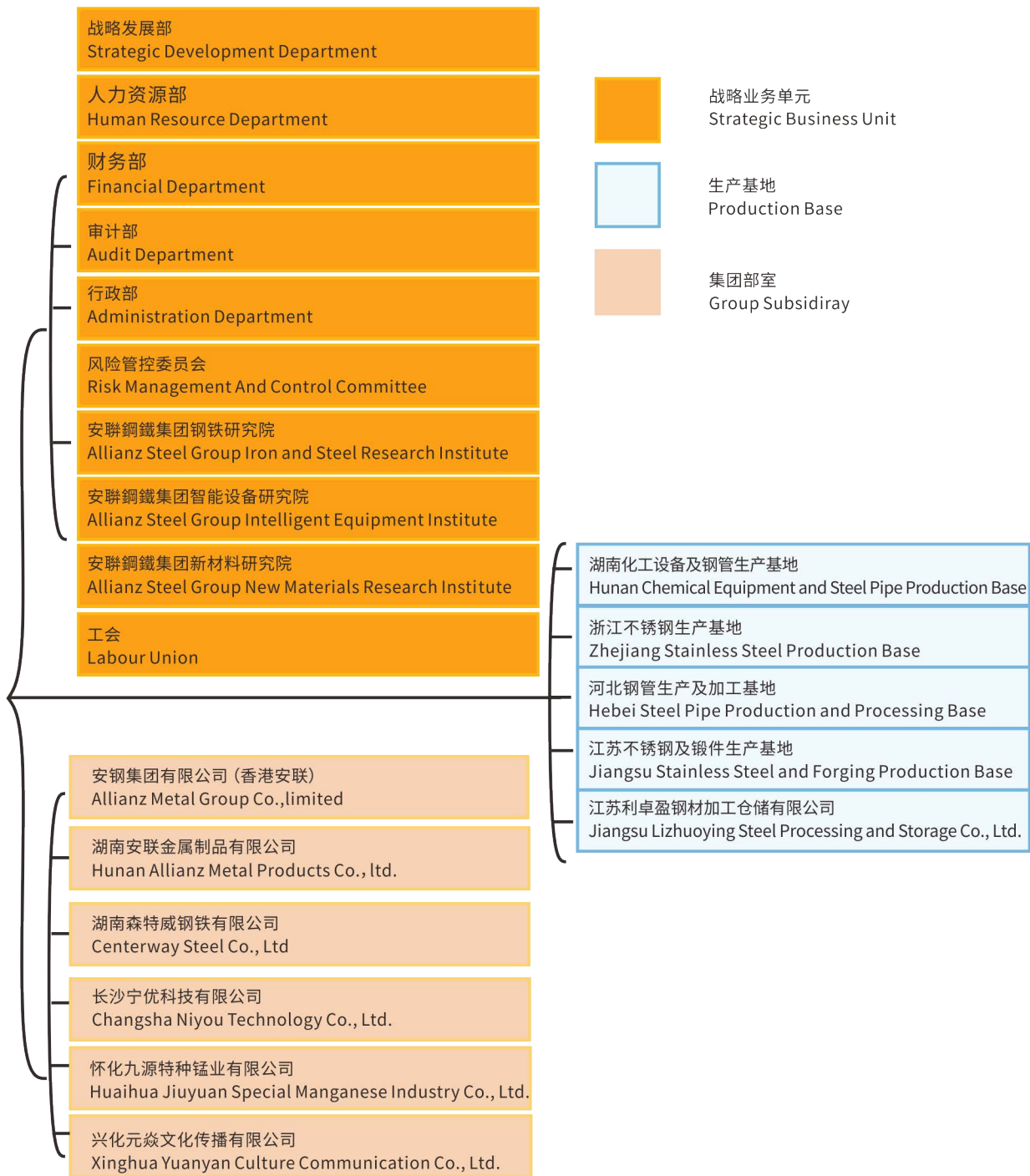


材料和制造的一站式解决方案  
ONE-STOP SOLUTION FOR MATERIAL  
& FABRICATION

# 组织结构 Organizational Structure



## 安聯鋼鐵集團 Allianz Steel Group



# 社会责任 Social Responsibility

## 1 对客户的质量, 诚信铸就品牌 Responsible for customers and credit building up brand

安聯鋼鐵集团始终把为客户提供最好的产品、最优的服务、全方位满足不同客户的需求视为企业的第一要务, 树立了企业的诚信品牌。

Allianz steel group always takes it as first importance to supply good products and service for customers to meet varied demands of different customers, which helps building up credit and brand of the group.

## 2 对员工的质量, 用诚信增强凝聚力 Responsible for staff and workers and to consolidate cohesive force

安聯鋼鐵集团始终坚持“以人为本, 立人立企”人才观念, 大力营造了企业政通人和、劳动关系和谐、职工安居乐业、忠诚企业、爱岗敬业的良好氛围, 保持了企业旺盛的生机和活力, 增强了企业的向心力和凝聚力。

Following concept of its “people centered and enterprise development by talents”, Allianz Steel Group is striving to generate a good atmosphere for workers to establish a harmonious work relation, where workers can enjoy working and life and loyal to the enterprise. Those measures maintains vigorous life and vitality of the enterprise and consolidates centripetal force and cohesive force of the enterprise.

## 3 对合作伙伴的质量, 诚信推动合作共赢 Responsible for cooperative partners and credit, promoting mutual benefit of cooperation

公司高举“合作、共赢”的旗帜, 树立“诚信为本、成就客户”的经营理念, 以诚信联盟, 步入了快速发展的轨道。

Highly holding banner of cooperation and mutual benefit, with concept of “Honesty for the achievement of customers”, Allianz Steel Group is moving into track for fast development working together with its partners.

## 4 对环境的质量, 全力创建环境友好型企业 Responsible for environment and becoming an environmental- friendly enterprise

绿色、低碳、环保新常态下企业实现健康持续发展的主题, 公司始终坚持经济发展与环境保护并重, 紧紧围绕“绿色安钢”环保目标, 全力推进资源节约型和环境友好型企业建设, 实现环境保护和经济建设的协调发展。

Green, low carbon and environmental protection under the new norm is the theme of the enterprise's healthy development. Allianz Steel Group pays more attention to economic development and environmental protection. The group is pushing forward to build into resources conserving and environmental-friendly enterprise to realize harmonious development in environmental protection and economical construction.

## 5 对社会的质量, 感恩回馈社会, 勇担社会责任 Responsible for society, bearing more social responsibility, pay back to the society

致富思源, 富而思进, 安聯鋼鐵集团在超过26年的创新发展中, 始终遵循并积极践行“产业报国、奉献社会”的公司精神, 树立起了有责任、敢担当、讲奉献的良好企业形象。

During its more than 26 years development, allianz steel group has build up a good reputation in public in term of social responsibility and contribution with mind of “Contributing to the country by developing industry”.

# 生产工艺 Production Technology

型材有折弯、轧制和焊接3种：

There are three kinds of profiles: bending, rolling and welding.

折弯一般有角钢、槽钢；最长可做到12米，极限13米勉强能做；厚度最厚40mm；单边宽度至少为板厚的8倍，如10mm厚度，宽度的最小尺寸是80\*80mm。

## bending

Bending generally includes angle bar and C/U channel; The longest can be up to 12 meters, and the limit is 13 meters; Maximum thickness 40mm; The width of one side should be at least 8 times the thickness of the plate, Such as 10mm thickness, The minimum width size is 80\*80mm.



## Rolling



轧制的型材有起订量的要求，常规的都是国标规格6米长；如需定制30吨起订；不常规或大型号的轧制型材起订量是300吨起订。

Rolled profiles have MOQ requirements, the conventional ones are 6 meters long according to the national standard; If you need to customize and MOQ is 30 tons; The MOQ for unconventional or large-sized rolled profiles is 300 tons.

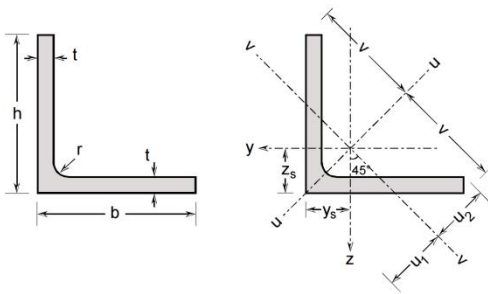
## Welding

For unconventional or large-sized profiles, and the quantity is small, the welding method is generally carried out by plate welding, Such as argon arc welding, Submerged arc welding, Plasma welding, High-frequency welding, gas shielded welding, etc.

对于不常规或者大型号的型材，且数量不多，一般是采用板子焊接的方式进行焊接，有氩弧焊，埋弧焊，等离子焊，高频焊，气保焊等。







### Equal leg angles

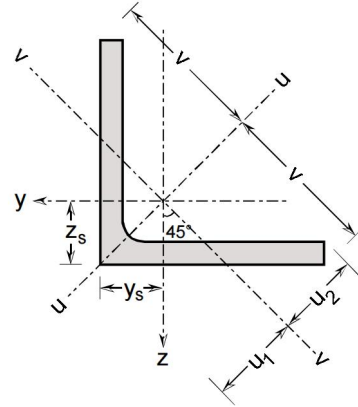
Dimensions: in accordance with EN 10056-1: 1998  
Tolerances: EN 10056-2:1993.

## General properties

Designation		Dimensions				Position of axes			
	G kg/m	h = b mm	t mm	r mm	A mm <sup>2</sup> x10 <sup>2</sup>	z <sub>s</sub> =y <sub>s</sub> mm	v mm	u <sub>1</sub> mm	u <sub>2</sub> mm
L 15 x 15 x 2	0.45	15	2	2.5	0.57	4.39	10.61	6.21	5.29
L 15 x 15 x 3	0.66	15	3	3	0.82	4.76	10.61	6.73	5.37
L 20 x 20 x 2	0.89	20	3	2.5	1.12	6.03	14.14	8.53	7.21
L 20 x 20 x 3	0.90	20	3	3.5	1.12	5.98	14.14	8.46	7.08
L 20 x 20 x 4	1.16	20	4	3.5	1.45	6.37	14.14	9.01	7.24
L 25 x 25 x 3	1.14	25	3	3.5	1.42	7.23	17.68	10.22	8.85
L 25 x 25 x 4	1.48	25	4	3.5	1.85	7.62	17.68	10.78	9.01
L 25 x 25 x 5	1.82	25	5	5	2.28	7.93	17.68	11.22	8.96
L 30 x 30 x 3	1.39	30	3	5	1.74	8.35	21.21	11.81	10.49
L 30 x 30 x 4	1.81	30	4	5	2.27	8.78	21.21	12.42	10.58
L 30 x 30 x 5	2.22	30	5	5	2.78	9.18	21.21	12.99	10.73
L 30 x 30 x 6	2.61	30	6	5	3.27	9.56	21.21	13.52	10.90
L 35 x 35 x 4	2.13	35	4	5	2.67	10.03	24.75	14.18	12.36
L 35 x 35 x 5	2.62	35	5	5	3.28	10.43	24.75	14.75	12.50
L 40 x 40 x 3	1.87	40	3	5	2.34	10.84	28.28	15.33	14.04
L 40 x 40 x 4	2.46	40	4	6	3.08	11.20	28.28	15.83	14.04
L 40 x 40 x 5	3.03	40	5	6	3.79	11.62	28.28	16.43	14.14
L 40 x 40 x 6	3.58	40	6	6	4.48	12.02	28.28	17.00	14.29
L 45 x 45 x 3	2.13	45	3	7	2.66	11.84	31.82	16.74	15.75
L 45 x 45 x 4	2.79	45	4	7	3.49	12.35	31.82	17.46	15.74
L 45 x 45 x 5	3.44	45	5	7	4.30	12.79	31.82	18.09	15.81
L 50 x 50 x 3	2.37	50	3	7	2.96	13.08	35.36	18.49	17.53
L 50 x 50 x 4	3.11	50	4	7	3.89	13.59	35.36	19.21	17.52

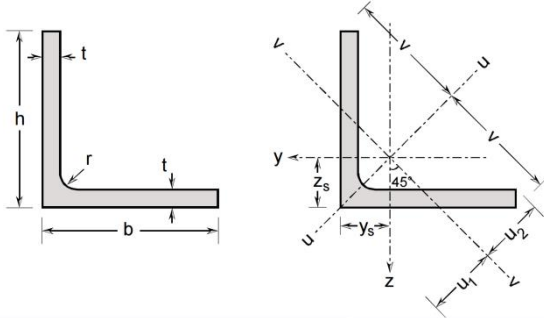
### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



### Structural properties

Designation	Axis y-y / axis z-z			Axis u-u		Axis v-v		$I_{yz}$ mm <sup>4</sup> x10 <sup>4</sup>
	$I_y=I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}=W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y=i_z$ mmx10	$I_u$ mm <sup>4</sup> x10 <sup>4</sup>	$i_u$ mmx10	$I_v$ mm <sup>4</sup> x10 <sup>4</sup>	$i_v$ mmx10	
L 15 x 15 x 2	0.11	0.11	0.45	0.18	0.56	0.05	0.29	-0.07
L 15 x 15 x 3	0.15	0.15	0.43	0.24	0.54	0.07	0.29	-0.09
L 20 x 20 x 2	0.40	0.28	0.60	0.63	0.75	0.17	0.39	-0.23
L 20 x 20 x 3	0.39	0.28	0.59	0.62	0.74	0.16	0.38	-0.23
L 20 x 20 x 4	0.49	0.36	0.58	0.77	0.73	0.21	0.38	-0.28
L 25 x 25 x 3	0.80	0.45	0.75	1.27	0.95	0.33	0.48	-0.47
L 25 x 25 x 4	1.02	0.59	0.74	1.61	0.93	0.43	0.48	-0.59
L 25 x 25 x 5	1.19	0.70	0.72	1.87	0.91	0.51	0.48	-0.68
L 30 x 30 x 3	1.40	0.65	0.90	2.22	1.13	0.59	0.58	-0.82
L 30 x 30 x 4	1.80	0.85	0.89	2.85	1.12	0.75	0.58	-1.05
L 30 x 30 x 5	2.16	1.04	0.88	3.41	1.11	0.92	0.57	-1.25
L 30 x 30 x 6	2.49	1.22	0.87	3.91	1.09	1.08	0.57	-1.41
L 35 x 35 x 4	2.95	1.18	1.05	4.68	1.32	1.23	0.68	-1.73
L 35 x 35 x 5	3.56	1.45	1.04	5.63	1.31	1.49	0.68	-2.07
L 40 x 40 x 3	3.49	1.20	1.22	5.53	1.54	1.45	0.79	-2.04
L 40 x 40 x 4	4.47	1.55	1.21	7.09	1.52	1.86	0.78	-2.61
L 40 x 40 x 5	5.43	1.91	1.20	8.59	1.51	2.26	0.77	-3.17
L 40 x 40 x 6	6.31	2.26	1.19	9.97	1.49	2.65	0.77	-3.66
L 45 x 45 x 3	4.93	1.49	1.36	7.78	1.71	2.07	0.88	-2.85
L 45 x 45 x 4	6.43	1.97	1.36	10.18	1.71	2.68	0.88	-3.75
L 45 x 45 x 5	7.84	2.43	1.35	12.42	1.70	3.26	0.87	-4.58
L 50 x 50 x 3	6.86	1.86	1.52	10.84	1.91	2.88	0.99	-3.98
L 50 x 50 x 4	8.97	2.46	1.52	14.22	1.91	3.73	0.98	-5.24



### Equal leg angles

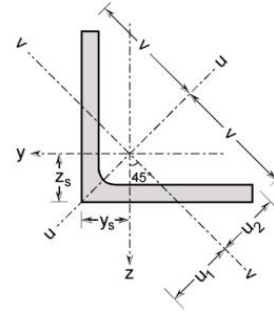
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### General properties

Designation		Dimensions				Position of axes			
	G	h = b	t	r	A	z <sub>s</sub> =y <sub>s</sub>	v	U <sub>1</sub>	U <sub>2</sub>
	kg/m	mm	mm	mm	mm <sup>2</sup> x 10 <sup>2</sup>	mm	mm	mm	mm
L 50 x 50 x 5	3.80	50	5	7 / 2 *	4.75	14.31	35.36	20.24	18.23
L 50 x 50 x 6	4.52	50	6	7 / 2 *	5.64	14.68	35.36	20.76	18.42
L 50 x 50 x 7	5.21	50	7	7 / 2 *	6.51	15.04	35.36	21.27	18.62
L 50 x 50 x 8	5.89	50	8	7 / 2 *	7.36	15.40	35.36	21.77	18.82
L 60 x 60 x 5	4.60	60	5	8 / 2 *	5.75	16.82	42.43	23.79	21.76
L 60 x 60 x 6	5.48	60	6	8 / 2 *	6.84	17.19	42.43	24.31	21.95
L 60 x 60 x 7	6.33	60	7	8 / 2 *	7.91	17.55	42.43	24.82	22.14
L 60 x 60 x 8	7.17	60	8	8 / 2 *	8.96	17.91	42.43	25.33	22.34
L 60 x 60 x 10	8.80	60	10	8 / 2 *	11.00	18.62	42.43	26.34	22.75
L 65 x 65 x 6	5.96	65	6	9 / 2 *	7.44	18.44	45.96	26.08	23.71
L 65 x 65 x 7	6.89	65	7	9 / 2 *	8.61	18.81	45.96	26.59	23.90
L 65 x 65 x 8	7.81	65	8	9 / 2 *	9.76	19.17	45.96	27.11	24.10
L 65 x 65 x 9	8.72	65	9	9 / 2 *	10.89	19.53	45.96	27.61	24.30
L 65 x 65 x 10	9.60	65	10	9 / 2 *	12.00	19.88	45.96	28.12	24.50
L 70 x 70 x 5	5.40	70	5	9 / 2 *	6.75	19.32	49.50	27.33	25.29
L 70 x 70 x 6	6.44	70	6	9 / 2 *	8.04	19.69	49.50	27.85	25.48
L 70 x 70 x 7	7.45	70	7	9 / 2 *	9.31	20.06	49.50	28.37	25.67
L 70 x 70 x 8	8.45	70	8	10 / 2 *	10.56	20.42	49.50	28.88	25.86
L 70 x 70 x 9	9.44	70	9	9 / 2 *	11.79	20.78	49.50	29.39	26.06
L 70 x 70 x 10	10.40	70	10	9 / 2 *	13.00	21.14	49.50	29.90	26.26
L 75 x 75 x 5	5.80	75	5	9 / 2 *	7.25	20.57	53.03	29.10	27.06
L 75 x 75 x 6	6.92	75	6	9 / 2 *	8.64	20.94	53.03	29.62	27.24
L 75 x 75 x 7	8.01	75	7	9 / 2 *	10.01	21.31	53.03	30.14	27.43
L 75 x 75 x 8	9.09	75	8	9 / 2 *	11.36	21.68	53.03	30.65	27.62
L 75 x 75 x 9	10.16	75	9	9 / 2 *	12.69	22.04	53.03	31.17	27.82
L 75 x 75 x 10	11.20	75	10	9 / 2 *	14.00	22.40	53.03	31.67	28.02

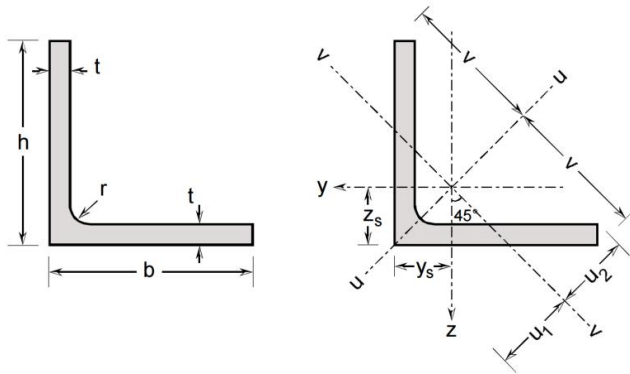
### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



### Structural properties

Designation	Axis y-y / axis z-z			Axis u-u		Axis v-v		$I_{yz}$ mm <sup>4</sup> x10 <sup>4</sup>
	$I_{y=z}$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}=W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_{y=z}$ mmx10	$I_u$ mm <sup>4</sup> x10 <sup>4</sup>	$I_u$ mmx10	$I_v$ mm <sup>4</sup> x10 <sup>4</sup>	$i_v$ mmx10	
L 50 x 50 x 5	11.23	3.15	1.54	17.87	1.94	4.59	0.98	-6.64
L 50 x 50 x 6	13.10	3.71	1.52	20.81	1.92	5.40	0.98	-7.70
L 50 x 50 x 7	14.87	4.25	1.51	23.55	1.90	6.19	0.97	-8.68
L 50 x 50 x 8	16.54	4.78	1.50	26.11	1.88	6.97	0.97	-9.57
L 60 x 60 x 5	19.88	4.60	1.86	31.68	2.35	8.07	1.18	-11.80
L 60 x 60 x 6	23.30	5.44	1.84	37.08	2.33	9.51	1.18	-13.78
L 60 x 60 x 7	26.55	6.26	1.83	42.19	2.31	10.92	1.17	-15.63
L 60 x 60 x 8	29.65	7.05	1.82	47.01	2.29	12.30	1.17	-17.36
L 60 x 60 x 10	35.43	8.56	1.79	55.86	2.25	15.00	1.17	-20.43
L 65 x 65 x 6	29.95	6.43	2.01	47.70	2.53	12.20	1.28	-17.75
L 65 x 65 x 7	34.19	7.40	1.99	54.38	2.51	14.01	1.28	-20.19
L 65 x 65 x 8	38.25	8.35	1.98	60.72	2.49	15.78	1.27	-22.47
L 65 x 65 x 9	42.13	9.26	1.97	66.73	2.47	17.52	1.27	-24.61
L 65 x 65 x 10	45.84	10.16	1.95	72.44	2.46	19.24	1.27	-26.60
L 70 x 70 x 5	32.12	6.34	2.18	51.24	2.75	13.00	1.39	-19.12
L 70 x 70 x 6	37.76	7.51	2.17	60.19	2.74	15.34	1.38	-22.42
L 70 x 70 x 7	43.18	8.65	2.15	68.72	2.72	17.63	1.38	-25.55
L 70 x 70 x 8	48.37	9.76	2.14	76.86	2.70	19.87	1.37	-28.50
L 70 x 70 x 9	53.34	10.84	2.13	84.62	2.68	22.06	1.37	-31.28
L 70 x 70 x 10	58.12	11.89	2.11	92.01	2.66	24.23	1.36	-33.89
L 75 x 75 x 5	39.78	7.31	2.34	63.48	2.96	16.07	1.49	-23.70
L 75 x 75 x 6	46.83	8.66	2.33	74.68	2.94	18.99	1.48	-27.84
L 75 x 75 x 7	53.61	9.99	2.31	85.39	2.92	21.83	1.48	-31.78
L 75 x 75 x 8	60.13	11.28	2.30	95.65	2.90	24.61	1.47	-35.52
L 75 x 75 x 9	66.40	12.54	2.29	105.46	2.88	27.34	1.47	-39.06
L 75 x 75 x 10	72.43	13.77	2.27	114.83	2.86	30.03	1.46	-42.40



### Equal leg angles

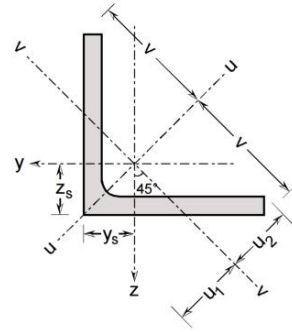
Dimensions: in accordance with EN 10056-1: 1998  
Tolerances: EN 10056-2:1993.

### General properties

Designation		Dimensions				Position of axes			
	G kg/m	h = b mm	t mm	r mm	A mm <sup>2</sup> x10 <sup>2</sup>	z <sub>s</sub> =y <sub>s</sub> mm	v mm	u <sub>1</sub> mm	u <sub>2</sub> mm
L 80 x 80 x 6	7.40	80	6	10 / 2 *	9.24	22.20	56.57	31.39	29.01
L 80 x 80 x 7	8.57	80	7	10 / 2 *	10.71	22.56	56.57	31.91	29.19
L 80 x 80 x 8	9.73	80	8	10 / 2 *	12.16	22.93	56.57	32.43	29.38
L 80 x 80 x 9	10.88	80	9	10 / 2 *	13.59	23.29	56.57	32.94	29.58
L 80 x 80 x 10	12.00	80	10	10 / 2 *	15.00	23.65	56.57	33.45	29.77
L 90 x 90 x 6	8.36	90	6	10 / 2 *	10.44	24.70	63.64	34.93	32.54
L 90 x 90 x 7	9.69	90	7	11 / 2 *	12.11	25.07	63.64	35.45	32.72
L 90 x 90 x 8	11.01	90	8	11 / 2 *	13.76	25.44	63.64	35.97	32.91
L 90 x 90 x 9	12.32	90	9	11 / 2 *	15.39	25.80	63.64	36.49	33.10
L 90 x 90 x 10	13.60	90	10	11 / 2 *	17.00	26.16	63.64	37.00	33.30
L 100 x 100 x 6	9.32	100	6	12 / 2 *	11.64	27.20	70.71	38.47	36.07
L 100 x 100 x 7	10.81	100	7	12 / 2 *	13.51	27.57	70.71	38.99	36.25
L 100 x 100 x 8	12.29	100	8	12 / 2 *	15.36	27.94	70.71	39.51	36.44
L 100 x 100 x 9	13.76	100	9	12 / 2 *	17.19	28.31	70.71	40.03	36.63
L 100 x 100 x 10	15.20	100	10	12 / 2 *	19.00	28.67	70.71	40.55	36.82
L 100 x 100 x 12	18.05	100	12	12 / 2 *	22.56	29.39	70.71	41.57	37.21
L 110 x 110 x 6	10.28	110	6	12 / 2 *	12.84	29.70	77.78	42.01	39.60
L 110 x 110 x 7	11.93	110	7	12 / 2 *	14.91	30.08	77.78	42.53	39.78
L 110 x 110 x 8	13.57	110	8	12 / 2 *	16.96	30.44	77.78	43.05	39.97
L 110 x 110 x 9	15.20	110	9	12 / 2 *	18.99	30.81	77.78	43.57	40.16
L 110 x 110 x 10	16.80	110	10	13 / 2 *	21.00	31.18	77.78	44.09	40.35
L 110 x 110 x 11	18.40	110	11	13 / 2 *	22.99	31.54	77.78	44.60	40.54
L 110 x 110 x 12	19.97	110	12	13 / 2 *	24.96	31.90	77.78	45.12	40.74
L 120 x 120 x 7	13.05	120	7	13 / 2 *	16.31	32.58	84.85	46.07	43.32
L 120 x 120 x 8	14.85	120	8	13 / 2 *	18.56	32.95	84.85	46.59	43.50
L 120 x 120 x 9	16.64	120	9	13 / 2 *	20.79	33.31	84.85	47.11	43.69
L 120 x 120 x 10	18.40	120	10	13 / 2 *	23.00	33.68	84.85	47.63	43.88

### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



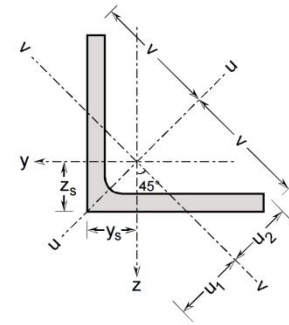
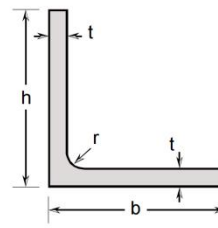
### Structural properties

Designation	Axis y-y / axis z-z			Axis u-u		Axis v-v		
	$I_y=I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}=W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y=i_z$ mmx10	$I_u$ mm <sup>4</sup> x10 <sup>4</sup>	$i_u$ mmx10	$I_v$ mm <sup>4</sup> x10 <sup>4</sup>	$i_v$ mmx10	$I_{yz}$ mm <sup>4</sup> x10 <sup>4</sup>
L 80 x 80 x 6	57.25	9.90	2.49	91.33	3.14	23.18	1.58	-34.07
L 80 x 80 x 7	65.62	11.42	2.47	104.57	3.12	26.66	1.58	-38.95
L 80 x 80 x 8	73.67	12.91	2.46	117.27	3.10	30.07	1.57	-43.60
L 80 x 80 x 9	81.44	14.36	2.45	129.46	3.09	33.42	1.57	-48.02
L 80 x 80 x 10	88.93	15.78	2.43	141.14	3.07	36.71	1.56	-52.22
L 90 x 90 x 6	82.52	12.64	2.81	131.71	3.55	33.33	1.79	-49.19
L 90 x 90 x 7	94.75	14.59	2.80	151.12	3.53	38.38	1.78	-56.37
L 90 x 90 x 8	106.58	16.51	2.78	169.84	3.51	43.32	1.77	-63.26
L 90 x 90 x 9	118.03	18.38	2.77	187.89	3.49	48.17	1.77	-69.86
L 90 x 90 x 10	129.11	20.22	2.76	205.28	3.47	52.94	1.76	-76.17
L 100 x 100 x 6	114.30	15.70	3.13	182.52	3.96	46.09	1.99	-68.22
L 100 x 100 x 7	131.45	18.15	3.12	209.77	3.94	53.12	1.98	-78.32
L 100 x 100 x 8	148.09	20.55	3.10	236.16	3.92	60.01	1.98	-88.07
L 100 x 100 x 9	164.24	22.91	3.09	261.70	3.90	66.78	1.97	-97.46
L 100 x 100 x 10	179.92	25.22	3.08	286.41	3.88	73.42	1.97	-106.49
L 100 x 100 x 12	209.92	29.73	3.05	333.42	3.84	86.43	1.96	-123.50
L 110 x 110 x 6	153.36	19.10	3.46	244.97	4.37	61.76	2.19	-91.61
L 110 x 110 x 7	176.59	22.09	3.44	281.93	4.35	71.24	2.19	-105.34
L 110 x 110 x 8	199.19	25.04	3.43	317.83	4.33	80.55	2.18	-118.64
L 110 x 110 x 9	221.19	27.93	3.41	352.69	4.31	89.68	2.17	-131.51
L 110 x 110 x 10	242.60	30.78	3.40	386.54	4.29	98.66	2.17	-143.94
L 110 x 110 x 11	263.44	33.58	3.38	419.38	4.27	107.50	2.16	-155.94
L 110 x 110 x 12	283.73	36.33	3.37	451.24	4.25	116.22	2.16	-167.51
L 120 x 120 x 7	231.05	26.43	3.76	369.00	4.76	93.09	2.39	-137.95
L 120 x 120 x 8	260.89	29.97	3.75	416.46	4.74	105.32	2.38	-155.57
L 120 x 120 x 9	290.00	33.45	3.73	462.68	4.72	117.33	2.38	-172.67
L 120 x 120 x 10	318.40	36.89	3.72	507.66	4.70	129.14	2.37	-189.26



## Equal leg angles

Dimensions: in accordance with EN 10056-1: 1998  
Tolerances: EN 10056-2:1993.

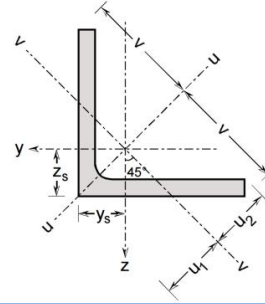


### General properties

Designation		Dimensions				Position of axes			
	G kg/m	h = b mm	t mm	r mm	A mm <sup>2</sup> x 10 <sup>2</sup>	Z <sub>s</sub> =Y <sub>s</sub> mm	v mm	u <sub>1</sub> mm	u <sub>2</sub> mm
L 120 x 120 x 11	20.16	120	11	13 / 2 *	25.19	34.05	84.85	48.15	44.07
L 120 x 120 x 12	21.89	120	12	13 / 2 *	27.36	34.41	84.85	48.66	44.26
L 120 x 120 x 13	23.61	120	13	13 / 2 *	29.51	34.77	84.85	49.17	44.46
L 120 x 120 x 14	25.32	120	14	13 / 2 *	31.64	35.13	84.85	49.68	44.65
L 120 x 120 x 15	27.00	120	15	13 / 2 *	33.75	35.49	84.85	50.19	44.85
L 120 x 120 x 16	28.68	120	16	13 / 2 *	35.84	35.85	84.85	50.70	45.05
L 130 x 130 x 8	16.13	130	8	14 / 2 *	20.16	35.45	91.92	50.13	47.03
L 130 x 130 x 9	18.08	130	9	14 / 2 *	22.59	35.82	91.92	50.65	47.22
L 130 x 130 x 10	20.00	130	10	14 / 2 *	25.00	36.19	91.92	51.17	47.41
L 130 x 130 x 11	21.92	130	11	14 / 2 *	27.39	36.55	91.92	51.69	47.60
L 130 x 130 x 12	23.81	130	12	14 / 2 *	29.76	36.92	91.92	52.21	47.79
L 130 x 130 x 13	25.69	130	13	14 / 2 *	32.11	37.28	91.92	52.72	47.98
L 130 x 130 x 14	27.56	130	14	14 / 2 *	34.44	37.64	91.92	53.23	48.18
L 130 x 130 x 15	29.40	130	15	14 / 2 *	36.75	38.00	91.92	53.74	48.37
L 130 x 130 x 16	31.24	130	16	14 / 2 *	39.04	38.36	91.92	54.25	48.57
L 140 x 140 x 9	19.52	140	9	15 / 2 *	24.39	38.32	98.99	54.19	50.75
L 140 x 140 x 10	21.60	140	10	15 / 2 *	27.00	38.69	98.99	54.71	50.94
L 140 x 140 x 11	23.68	140	11	15 / 2 *	29.59	39.06	98.99	55.23	51.13
L 140 x 140 x 12	25.73	140	12	15 / 2 *	32.16	39.42	98.99	55.75	51.32
L 140 x 140 x 13	27.77	140	13	15 / 2 *	34.71	39.78	98.99	56.26	51.51
L 140 x 140 x 14	29.80	140	14	15 / 2 *	37.24	40.15	98.99	56.78	51.70
L 140 x 140 x 15	31.80	140	15	15 / 2 *	39.75	40.51	98.99	57.29	51.90
L 140 x 140 x 16	33.80	140	16	15 / 2 *	42.24	40.87	98.99	57.80	52.10
L 150 x 150 x 10	23.20	150	10	16 / 2 *	29.00	41.19	106.07	58.25	54.47
L 150 x 150 x 12	27.65	150	12	16 / 2 *	34.56	41.93	106.07	59.29	54.85
L 150 x 150 x 13	29.85	150	13	16 / 2 *	37.31	42.29	106.07	59.81	55.04
L 150 x 150 x 14	32.04	150	14	16 / 2 *	40.04	42.65	106.07	60.32	55.23
L 150 x 150 x 15	34.20	150	15	16 / 2 *	42.75	43.02	106.07	60.83	55.42

### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



### Structural properties

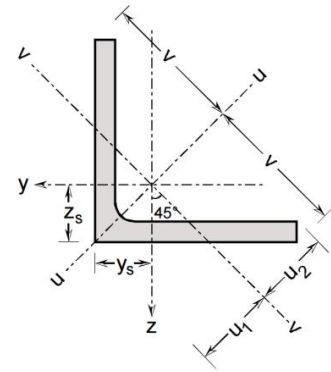
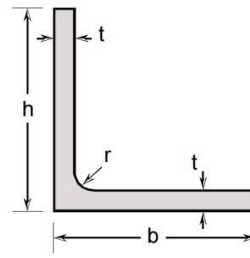
Designation	Axis y-y / axis z-z			Axis u-u		Axis v-v		$I_{yz}$ mm <sup>4</sup> x10 <sup>4</sup>
	$I_y=I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}=W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y=i_z$ mmx10	$I_u$ mm <sup>4</sup> x10 <sup>4</sup>	$I_u$ mmx10	$I_v$ mm <sup>4</sup> x10 <sup>4</sup>	$I_v$ mmx10	
L 120 x 120 x 11	346.10	40.27	3.71	551.43	4.68	140.78	2.36	-205.32
L 120 x 120 x 12	373.13	43.59	3.69	594.01	4.66	152.25	2.36	-220.88
L 120 x 120 x 13	399.50	46.87	3.68	635.42	4.64	163.58	2.35	-235.92
L 120 x 120 x 14	425.24	50.11	3.67	675.69	4.62	174.78	2.35	-250.46
L 120 x 120 x 15	450.35	53.29	3.65	714.84	4.60	185.86	2.35	-264.49
L 120 x 120 x 16	474.86	56.43	3.64	752.89	4.58	196.84	2.34	-278.02
L 130 x 130 x 8	334.19	35.35	4.07	533.65	5.14	134.73	2.58	-199.46
L 130 x 130 x 9	371.81	39.48	4.06	593.45	5.12	150.18	2.58	-221.63
L 130 x 130 x 10	408.58	43.55	4.04	651.77	5.11	165.38	2.57	-243.20
L 130 x 130 x 11	444.51	47.57	4.03	708.66	5.09	180.36	2.57	-264.15
L 130 x 130 x 12	479.63	51.53	4.01	764.14	5.07	195.13	2.56	-284.50
L 130 x 130 x 13	513.96	55.43	4.00	818.22	5.05	209.71	2.56	-304.25
L 130 x 130 x 14	547.52	59.28	3.99	870.93	5.03	224.12	2.55	-323.41
L 130 x 130 x 15	580.33	63.08	3.97	922.29	5.01	238.37	2.55	-341.96
L 130 x 130 x 16	612.41	66.83	3.96	972.34	4.99	252.49	2.54	-359.92
L 140 x 140 x 9	467.74	46.00	4.38	746.80	5.53	188.68	2.78	-279.06
L 140 x 140 x 10	514.38	50.77	4.36	820.89	5.51	207.87	2.77	-306.51
L 140 x 140 x 11	560.03	55.48	4.35	893.29	5.49	226.78	2.77	-333.25
L 140 x 140 x 12	604.73	60.12	4.34	964.02	5.47	245.44	2.76	-359.29
L 140 x 140 x 13	648.49	64.71	4.32	1033.12	5.46	263.87	2.76	-384.62
L 140 x 140 x 14	691.33	69.24	4.31	1100.60	5.44	282.07	2.75	-409.26
L 140 x 140 x 15	733.28	73.70	4.29	1166.49	5.42	300.07	2.75	-433.21
L 140 x 140 x 16	774.36	78.12	4.28	1230.83	5.40	317.90	2.74	-456.46
L 150 x 150 x 10	637.05	58.55	4.69	1017.00	5.92	257.11	2.98	-379.94
L 150 x 150 x 12	749.93	69.39	4.66	1196.06	5.88	303.80	2.96	-446.13
L 150 x 150 x 13	804.71	74.71	4.64	1282.72	5.86	326.70	2.96	-478.01
L 150 x 150 x 14	858.42	79.97	4.63	1367.50	5.84	349.33	2.95	-509.09
L 150 x 150 x 15	911.08	85.16	4.62	1450.44	5.82	371.71	2.95	-539.36





### Equal leg angles

Dimensions: in accordance with EN 10056-1: 1998  
Tolerances: EN 10056-2:1993.



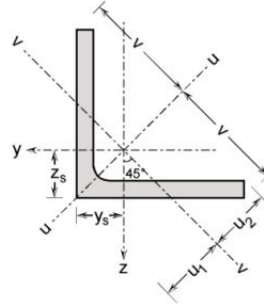
### General properties

Designation		Dimensions				Position of axes			
	G	h = b	t	r	A	$z_s=y_s$	V	$u_1$	$u_2$
	kg/m	mm	mm	mm	mm <sup>2</sup> x10 <sup>2</sup>	mm	mm	mm	mm
L 150 x 150 x 16	36.36	150	16	16 / 2 *	45.44	43.38	106.07	61.35	55.62
L 150 x 150 x 18	40.61	150	18	16 / 2 *	50.76	44.10	106.07	62.36	56.01
L 150 x 150 x 20	44.80	150	20	16 / 2 *	56.00	44.81	106.07	63.38	56.42
L 160 x 160 x 15	36.60	160	15	2 +	45.75	45.52	113.14	64.38	58.95
L 160 x 160 x 16	38.92	160	16	2 +	48.64	45.89	113.14	64.89	59.14
L 160 x 160 x 18	43.49	160	18	2 +	54.36	46.61	113.14	65.91	59.54
L 160 x 160 x 20	48.00	160	20	2 +	60.00	47.33	113.14	66.93	59.94
L 180 x 180 x 13	36.09	180	13	2 +	45.11	49.80	127.28	70.43	65.63
L 180 x 180 x 15	41.40	180	15	2 +	51.75	50.53	127.28	71.47	66.01
L 180 x 180 x 16	44.04	180	16	2 +	55.04	50.90	127.28	71.98	66.20
L 180 x 180 x 18	49.25	180	18	2 +	61.56	51.62	127.28	73.01	66.59
L 180 x 180 x 20	54.40	180	20	2 +	68.00	52.35	127.28	74.03	66.98
L 200 x 200 x 13	40.25	200	13	2 +	50.31	54.81	141.42	77.51	72.69
L 200 x 200 x 15	46.20	200	15	2 +	57.75	55.54	141.42	78.55	73.07
L 200 x 200 x 16	49.16	200	16	2 +	61.44	55.91	141.42	79.07	73.26
L 200 x 200 x 18	55.01	200	18	2 +	68.76	56.64	141.42	80.10	73.64
L 200 x 200 x 20	60.80	200	20	2 +	76.00	57.36	141.42	81.12	74.03
L 250 x 250 x 13	50.65	250	13	2 +	63.31	67.32	176.78	95.20	90.35
L 250 x 250 x 15	58.20	250	15	2 +	72.75	68.06	176.78	96.25	90.72
L 250 x 250 x 18	69.41	250	18	2 +	86.76	69.16	176.78	97.80	91.29
L 250 x 250 x 20	76.80	250	20	2 +	96.00	69.89	176.78	98.84	91.67
L 300 x 300 x 13	61.05	300	13	2 +	76.31	79.83	212.13	112.89	108.02
L 300 x 300 x 15	70.20	300	15	2 +	87.75	80.57	212.13	113.94	108.39
L 300 x 300 x 16	74.76	300	16	2 +	93.44	80.94	212.13	114.46	108.57
L 300 x 300 x 18	83.81	300	18	2 +	104.76	81.67	212.13	115.50	108.94
L 300 x 300 x 20	92.80	300	20	2 +	116.00	82.41	212.13	116.54	109.32



### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



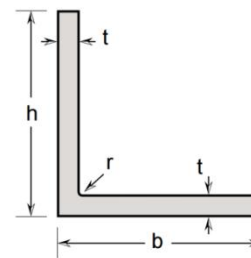
### Structural properties

Designation	Axis y-y / axis z-z			Axis u-u		Axis v-v		$I_{yz}$ mm <sup>4</sup> x10 <sup>4</sup>
	$I_y=I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}=W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y=i_z$ mmx10	$I_u$ mm <sup>4</sup> x10 <sup>4</sup>	$i_u$ mmx10	$I_v$ mm <sup>4</sup> x10 <sup>4</sup>	$i_v$ mmx10	
L 150 x 150 x 16	962.71	90.29	4.60	1531.55	5.81	393.87	2.94	-568.84
L 150 x 150 x 18	1062.99	100.38	4.58	1688.41	5.77	437.57	2.94	-625.42
L 150 x 150 x 20	1159.45	110.23	4.55	1838.30	5.73	480.60	2.93	-678.85
L 160 x 160 x 15	1115.58	97.45	4.94	1777.13	6.23	454.04	3.15	-661.54
L 160 x 160 x 16	1179.45	103.36	4.92	1877.71	6.21	481.20	3.15	-698.25
L 160 x 160 x 18	1303.71	114.97	4.90	2072.68	6.17	534.75	3.14	-768.96
L 160 x 160 x 20	1423.51	126.34	4.87	2259.58	6.14	587.44	3.13	-836.07
L 180 x 180 x 13	1419.77	109.05	5.61	2265.77	7.09	573.78	3.57	-845.99
L 180 x 180 x 15	1612.25	124.53	5.58	2570.74	7.05	653.77	3.55	-958.49
L 180 x 180 x 16	1706.14	132.15	5.57	2719.13	7.03	693.14	3.55	-1012.99
L 180 x 180 x 18	1889.33	147.17	5.54	3007.87	6.99	770.79	3.54	-1118.54
L 180 x 180 x 20	2066.62	161.89	5.51	3286.12	6.95	847.12	3.53	-1219.50
L 200 x 200 x 13	1968.06	135.55	6.25	3142.32	7.90	793.80	3.97	-1174.26
L 200 x 200 x 15	2238.29	154.94	6.23	3571.34	7.86	905.24	3.96	-1333.05
L 200 x 200 x 16	2370.42	164.51	6.21	3780.70	7.84	960.13	3.95	-1410.29
L 200 x 200 x 18	2628.84	183.37	6.18	4189.29	7.81	1068.39	3.94	-1560.45
L 200 x 200 x 20	2879.72	201.89	6.16	4584.64	7.77	1174.81	3.93	-1704.92
L 250 x 250 x 13	3917.47	214.44	7.87	6259.57	9.94	1575.37	4.99	-2342.10
L 250 x 250 x 15	4467.81	245.56	7.84	7135.89	9.90	1799.73	4.97	-2668.08
L 250 x 250 x 18	5269.03	291.36	7.79	8409.07	9.84	2128.98	4.95	-3140.04
L 250 x 250 x 20	5787.45	321.33	7.76	9230.86	9.81	2344.04	4.94	-3443.41
L 300 x 300 x 13	6856.06	311.39	9.48	10959.46	11.98	2752.65	6.01	-4103.41
L 300 x 300 x 15	7834.01	357.01	9.45	12519.09	11.94	3148.94	5.99	-4685.07
L 300 x 300 x 16	8315.71	379.60	9.43	13286.68	11.92	3344.73	5.98	-4970.98
L 300 x 300 x 18	9264.79	424.35	9.40	14797.74	11.88	3731.85	5.97	-5532.95
L 300 x 300 x 20	10195.14	468.54	9.37	16276.98	11.85	4113.29	5.95	-6081.84



### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



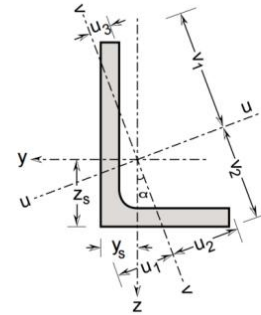
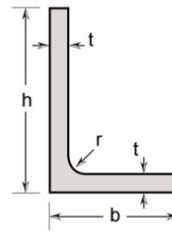
### General properties

Designation		Dimensions			
	G kg/m	h = b mm	t mm	r mm	A mm <sup>2</sup> x 10 <sup>2</sup>
L 10 x 10 x 2	0.29	10	2	<1	0.36
L 15 x 15 x 2	0.45	15	2	<1	0.56
L 15 x 15 x 3	0.65	15	3	<1	0.81
L 20 x 20 x 2	0.61	20	2	<1	0.76
L 20 x 20 x 3*	0.89	20	3	<1	1.11
L 25 x 25 x 3*	1.13	25	3	<1	1.41
L 25 x 25 x 4	1.47	25	4	<1	1.84
L 30 x 30 x 3*	1.37	30	3	<1	1.71
L 30 x 30 x 4	1.79	30	4	<1	2.24
L 35 x 35 x 4	2.11	35	4	<1	2.64
L 35 x 35 x 5	2.6	35	5	<1	3.25
L 40 x 40 x 3	1.85	40	3	<1	2.31
L 40 x 40 x 4*	2.43	40	4	<1	3.04
L 40 x 40 x 5*	3	40	5	<1	3.75
L 45 x 45 x 3	2.09	45	3	<1	2.61
L 45 x 45 x 4	2.75	45	4	<1	3.44
L 45 x 45 x 5	3.4	45	5	<1	4.25
L 50 x 50 x 3	2.33	50	3	<1	2.91
L 50 x 50 x 4	3.07	50	4	<1	3.84
L 50 x 50 x 5*	3.8	50	5	<1	4.75
L 50 x 50 x 6	4.51	50	6	<1	5.64
L 50 x 50 x 7	5.21	50	7	<1	6.51
L 50 x 50 x 8	5.891	50	8	<1	7.364
L 60 x 60 x 5	4.603	60	5	<1	5.754
L 60 x 60 x 6*	5.475	60	6	<1	6.844
L 60 x 60 x 7	6.331	60	7	<1	7.914
L 60 x 60 x 8	7.171	60	8	<1	8.964



### Unequal leg angles

Dimensions: in accordance with EN 10056-1: 1998  
Tolerances: EN 10056-2:1993



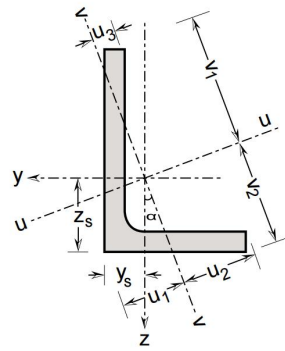
### Structural properties

Designation		Dimensions					Position of axes						
	G kg/m	h mm	b mm	t mm	r mm	A mm <sup>2</sup> × 10 <sup>2</sup>	y <sub>s</sub> mm	z <sub>s</sub> mm	v <sub>1</sub> mm	v <sub>2</sub> mm	u <sub>1</sub> mm	u <sub>2</sub> mm	u <sub>3</sub> mm
L 20 x 10 x 3	0.66	20	10	3	3.5	0.82	2.77	7.62	12.69	9.08	4.46	5.61	2.72
L 25 x 15 x 3	0.90	25	15	3	3.5	1.12	3.87	8.76	16.62	11.91	6.52	8.17	4.00
L 30 x 15 x 3	1.03	30	15	3	5	1.29	3.56	10.75	19.54	13.18	6.04	8.71	3.55
L 30 x 20 x 3	1.15	30	20	3	5	1.44	4.97	9.78	20.55	14.87	8.39	10.42	5.29
L 30 x 20 x 4	1.49	30	20	4	5	1.87	5.38	10.24	20.31	15.09	8.92	10.30	5.59
L 40 x 20 x 3	1.39	40	20	3	5	1.74	4.37	14.06	26.22	17.48	7.70	11.89	4.51
L 40 x 20 x 4	1.82	40	20	4	6	2.28	4.76	14.42	25.97	17.67	8.10	11.64	4.79
L 40 x 20 x 5	2.23	40	20	5	6	2.79	5.17	14.89	25.62	17.98	8.55	11.44	5.16
L 40 x 30 x 3	1.63	40	30	3	5	2.04	7.34	12.21	27.92	21.55	12.28	14.62	8.56
L 40 x 30 x 4	2.14	40	30	4	6	2.68	7.71	12.57	27.81	21.64	12.75	14.49	8.68
L 40 x 30 x 5	2.63	40	30	5	6	3.29	8.12	13.01	27.63	21.80	13.30	14.44	8.93
L 45 x 30 x 3	1.77	45	30	3	7	2.21	6.80	13.94	31.25	21.89	11.70	16.00	7.53
L 45 x 30 x 4	2.31	45	30	4	7	2.89	7.26	14.49	30.92	22.23	12.36	15.72	7.85
L 45 x 30 x 5	2.84	45	30	5	7	3.55	7.69	14.97	30.65	22.48	12.92	15.57	8.15
L 50 x 30 x 3	1.89	50	30	3	7	2.36	6.46	16.02	34.21	22.88	11.38	16.98	6.97
L 50 x 30 x 4	2.47	50	30	4	7	3.09	6.92	16.58	33.83	23.28	12.02	16.66	7.33
L 50 x 30 x 5	3.04	50	30	5	7	3.80	7.35	17.07	33.51	23.57	12.56	16.46	7.66
L 50 x 40 x 3	2.13	50	40	3	7	2.66	9.58	14.38	35.35	28.20	15.70	18.61	11.77
L 50 x 40 x 4	2.79	50	40	4	7	3.49	10.06	14.91	35.14	28.43	16.40	18.41	11.97
L 50 x 40 x 5	3.44	50	40	5	7	4.30	10.50	15.38	34.98	28.58	17.01	18.33	12.19
L 60 x 30 x 5	3.45	60	30	5	8	4.32	6.75	21.28	39.20	26.31	11.75	17.70	6.91
L 60 x 30 x 6	4.09	60	30	6	8	5.11	7.17	21.76	38.83	26.65	12.23	17.48	7.28
L 60 x 30 x 7	4.70	60	30	7	8	5.88	7.57	22.22	38.50	26.94	12.66	17.30	7.64



### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



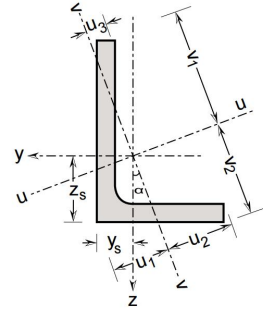
### Structural properties

Designation	Axis y-y			Axis z-z			Axis u-u		Axis v-v		$I_{yz}$ mm <sup>4</sup> x10 <sup>4</sup>	$\alpha$
	$I_y$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y$ mmx10	$I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_z$ mmx10	$I_u$ mm <sup>4</sup> x10 <sup>4</sup>	$i_u$ mmx10	$I_v$ mm <sup>4</sup> x10 <sup>4</sup>	$i_v$ mmx10		
L 20 x 10 x 3	0.31	0.25	0.61	0.05	0.07	0.24	0.32	0.63	0.03	0.20	-0.06	13.33
L 25 x 15 x 3	0.68	0.42	0.78	0.18	0.16	0.40	0.74	0.81	0.11	0.31	-0.19	19.03
L 30 x 15 x 3	1.12	0.58	0.93	0.18	0.16	0.37	1.18	0.96	0.12	0.30	-0.25	13.90
L 30 x 20 x 3	1.23	0.61	0.93	0.43	0.28	0.55	1.41	0.99	0.25	0.42	-0.42	22.95
L 30 x 20 x 4	1.57	0.80	0.92	0.54	0.37	0.54	1.79	0.98	0.32	0.42	-0.52	22.73
L 40 x 20 x 3	2.78	1.07	1.27	0.46	0.29	0.51	2.94	1.30	0.30	0.42	-0.63	14.24
L 40 x 20 x 4	3.55	1.39	1.25	0.57	0.38	0.50	3.74	1.28	0.38	0.41	-0.79	13.96
L 40 x 20 x 5	4.28	1.70	1.24	0.69	0.47	0.50	4.50	1.27	0.46	0.41	-0.93	13.70
L 40 x 30 x 3	3.19	1.15	1.25	1.53	0.67	0.87	3.88	1.38	0.83	0.64	-1.28	28.52
L 40 x 30 x 4	4.08	1.49	1.23	1.94	0.87	0.85	4.95	1.36	1.06	0.63	-1.63	28.32
L 40 x 30 x 5	4.94	1.83	1.23	2.34	1.07	0.84	5.98	1.35	1.29	0.63	-1.95	28.18
L 45 x 30 x 3	4.34	1.40	1.40	1.51	0.65	0.83	4.96	1.50	0.89	0.64	-1.46	22.97
L 45 x 30 x 4	5.65	1.85	1.40	1.97	0.87	0.82	6.46	1.49	1.16	0.63	-1.91	23.04
L 45 x 30 x 5	6.86	2.29	1.39	2.38	1.07	0.82	7.84	1.49	1.41	0.63	-2.31	22.95
L 50 x 30 x 3	5.85	1.72	1.57	1.55	0.66	0.81	6.44	1.65	0.96	0.64	-1.71	19.24
L 50 x 30 x 4	7.61	2.28	1.57	2.02	0.88	0.81	8.39	1.65	1.24	0.63	-2.23	19.30
L 50 x 30 x 5	9.26	2.81	1.56	2.45	1.08	0.80	10.20	1.64	1.51	0.63	-2.70	19.21
L 50 x 40 x 3	6.41	1.80	1.55	3.62	1.19	1.17	8.12	1.75	1.91	0.85	-2.78	31.65
L 50 x 40 x 4	8.37	2.39	1.55	4.72	1.58	1.16	10.63	1.74	2.46	0.84	-3.65	31.72
L 50 x 40 x 5	10.21	2.95	1.54	5.75	1.95	1.16	12.96	1.74	3.00	0.84	-4.45	31.69
L 60 x 30 x 5	15.41	3.98	1.89	2.53	1.09	0.77	16.29	1.94	1.65	0.62	-3.47	14.15
L 60 x 30 x 6	18.05	4.72	1.88	2.95	1.29	0.76	19.06	1.93	1.95	0.62	-4.02	14.02
L 60 x 30 x 7	20.54	5.44	1.87	3.35	1.49	0.75	21.65	1.92	2.23	0.62	-4.51	13.83



## Unequal leg angles

Dimensions: in accordance with EN 10056-1: 1998  
Tolerances: EN 10056-2:1993



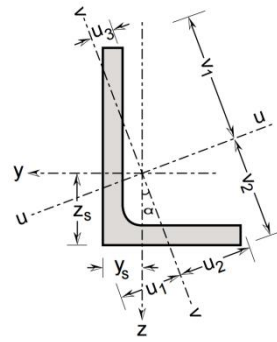
### General properties

Designation		Dimensions					Position of axes							
	G kg/m	h mm	b mm	t mm	r mm	A mm <sup>2</sup> x 10 <sup>2</sup>	y <sub>s</sub> mm	z <sub>s</sub> mm	v <sub>1</sub> mm	v <sub>2</sub> mm	u <sub>1</sub> mm	u <sub>2</sub> mm	u <sub>3</sub> mm	
L 60 x 40 x 5	3.85	60	40	5	8 / 2 *	4.82	9.61	19.33	41.17	29.74	16.45	21.03	10.54	
L 60 x 40 x 6	4.57	60	40	6	8 / 2 *	5.71	10.03	19.79	40.92	29.97	17.00	20.89	10.84	
L 65 x 50 x 5	4.47	65	50	5	9 / 2 *	5.59	12.34	19.60	45.55	35.68	20.42	23.85	14.47	
L 65 x 50 x 7	6.12	65	50	7	9 / 2 *	7.65	13.19	20.52	45.19	36.03	21.61	23.68	14.95	
L 65 x 50 x 8	6.92	65	50	8	9 / 2 *	8.65	13.59	20.94	45.04	36.16	22.15	23.67	15.20	
L 65 x 50 x 9	7.70	65	50	9	9 / 2 *	9.63	13.98	21.35	44.90	36.28	22.66	23.69	15.46	
L 70 x 50 x 6	5.54	70	50	6	9 / 2 *	6.93	12.35	22.10	48.43	36.45	20.84	25.15	13.91	
L 70 x 50 x 7	6.40	70	50	7	9 / 2 *	8.00	12.77	22.55	48.22	36.64	21.39	25.06	14.19	
L 70 x 50 x 8	7.24	70	50	8	9 / 2 *	9.05	13.17	22.98	48.03	36.81	21.92	25.01	14.46	
L 70 x 50 x 9	8.06	70	50	9	9 / 2 *	10.08	13.56	23.39	47.85	36.95	22.41	24.99	14.74	
L 75 x 50 x 6	5.78	75	50	6	9 / 2 *	7.23	11.96	24.16	51.42	37.25	20.55	26.32	13.23	
L 75 x 50 x 7	6.68	75	50	7	9 / 2 *	8.35	12.38	24.62	51.18	37.47	21.09	26.20	13.53	
L 75 x 50 x 8	7.56	75	50	8	9 / 2 *	9.45	12.78	25.05	50.95	37.67	21.60	26.11	13.83	
L 75 x 55 x 6	6.02	75	55	6	9 / 2 *	7.53	13.55	23.32	52.10	39.81	22.78	27.21	15.57	
L 75 x 55 x 7	6.96	75	55	7	9 / 2 *	8.70	13.97	23.77	51.91	39.99	23.35	27.13	15.84	
L 75 x 55 x 8	7.88	75	55	8	9 / 2 *	9.85	14.37	24.20	51.73	40.15	23.88	27.09	16.11	
L 75 x 55 x 9	8.78	75	55	9	9 / 2 *	10.98	14.77	24.61	51.56	40.29	24.39	27.07	16.37	
L 80 x 40 x 6	5.56	80	40	6	10 / 2 *	6.95	8.74	28.13	52.43	34.95	15.39	23.78	9.03	
L 80 x 40 x 8	7.25	80	40	8	10 / 2 *	9.07	9.57	29.10	51.70	35.62	16.35	23.33	9.77	
L 80 x 65 x 6	6.76	80	65	6	10 / 2 *	8.45	16.35	23.66	56.26	46.17	26.54	29.52	19.77	
L 80 x 65 x 8	8.85	80	65	8	10 / 2 *	11.07	17.21	24.56	55.98	46.44	27.73	29.44	20.20	
L 80 x 65 x 10	10.89	80	65	10	10 / 2 *	13.61	18.00	25.38	55.74	46.65	28.82	29.49	20.66	
L 90 x 60 x 6	7.02	90	60	6	11 / 2 *	8.77	13.82	28.38	62.06	44.34	23.92	31.83	15.48	
L 90 x 60 x 8	9.19	90	60	8	11 / 2 *	11.49	14.68	29.34	61.52	44.86	25.08	31.48	16.09	



### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



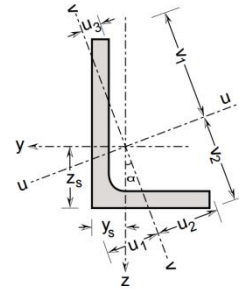
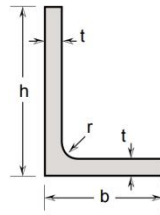
### Structural properties

Designation	Axis y-y			Axis z-z			Axis u-u		Axis v-v		$i_{yz}$ mm <sup>4</sup> x10 <sup>4</sup>	$\alpha$
	$I_y$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y$ mmx10	$I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_z$ mmx10	$I_u$ mm <sup>4</sup> x10 <sup>4</sup>	$i_u$ mmx10	$I_v$ mm <sup>4</sup> x10 <sup>4</sup>	$i_v$ mmx10		
L 60 x 40 x 5	17.00	4.18	1.88	5.98	1.97	1.11	19.49	2.01	3.49	0.85	-5.79	23.21
L 60 x 40 x 6	19.96	4.96	1.87	7.00	2.33	1.11	22.86	2.00	4.10	0.85	-6.78	23.13
L 65 x 50 x 5	22.79	5.02	2.02	11.62	3.09	1.44	28.17	2.25	6.25	1.06	-9.43	29.68
L 65 x 50 x 7	30.71	6.91	2.00	15.61	4.24	1.43	37.92	2.23	8.40	1.05	-12.68	29.61
L 65 x 50 x 8	34.40	7.81	1.99	17.44	4.79	1.42	42.40	2.21	9.44	1.04	-14.13	29.52
L 65 x 50 x 9	37.92		1.98	19.18	5.33	1.41	46.63	2.20	10.47	1.04	-15.47	29.40
L 70 x 50 x 6	33.12	6.91	2.19	13.95	3.71	1.42	39.23	2.38	7.84	1.06	-12.43	26.19
L 70 x 50 x 7	37.92	7.99	2.18	15.94	4.28	1.41	44.87	2.37	8.98	1.06	-14.19	26.12
L 70 x 50 x 8	42.51	9.04	2.17	17.81	4.84	1.40	50.23	2.36	10.09	1.06	-15.82	26.02
L 70 x 50 x 9	46.90	10.06	2.16	19.60	5.38	1.39	55.31	2.34	11.18	1.05	-17.34	25.89
L 75 x 50 x 6	40.22	7.91	2.36	14.21	3.74	1.40	46.16	2.53	8.28	1.07	-13.77	23.32
L 75 x 50 x 7	46.09	9.15	2.35	16.24	4.32	1.39	52.84	2.52	9.48	1.07	-15.73	23.25
L 75 x 50 x 8	51.71	10.35	2.34	18.16	4.88	1.39	59.21	2.50	10.65	1.06	-17.55	23.15
L 75 x 55 x 6	41.52	8.03	2.35	18.79	4.53	1.58	49.94	2.58	10.36	1.17	-16.20	27.47
L 75 x 55 x 7	47.60	9.29	2.34	21.49	5.24	1.57	57.21	2.56	11.87	1.17	-18.54	27.42
L 75 x 55 x 8	53.43	10.52	2.33	24.06	5.92	1.56	64.14	2.55	13.35	1.16	-20.72	27.34
L 75 x 55 x 9	59.02	11.71	2.32	26.51	6.59	1.55	70.74	2.54	14.79	1.16	-22.76	27.23
L 80 x 40 x 6	44.49	8.58	2.53	7.35	2.35	1.03	47.05	2.60	4.79	0.83	-10.08	14.24
L 80 x 40 x 8	57.18	11.23	2.51	9.38	3.08	1.02	60.37	2.58	6.19	0.83	-12.76	14.05
L 80 x 65 x 6	52.32	9.29	2.49	30.81	6.33	1.91	67.31	2.82	15.83	1.37	-23.39	32.65
L 80 x 65 x 8	67.61	12.19	2.47	39.71	8.31	1.89	86.91	2.80	20.41	1.36	-30.18	32.60
L 80 x 65 x 10	81.76	14.97	2.45	47.87	10.19	1.88	104.82	2.78	24.82	1.35	-36.23	32.47
L 90 x 60 x 6	70.64	11.46	2.84	25.00	5.41	1.69	81.06	3.04	14.58	1.29	-24.16	23.32
L 90 x 60 x 8	91.50	15.09	2.82	32.25	7.12	1.68	104.94	3.02	18.82	1.28	-31.25	23.26



### Unequal leg angles

Dimensions: in accordance with EN 10056-1: 1998  
Tolerances: EN 10056-2:1993



### General properties

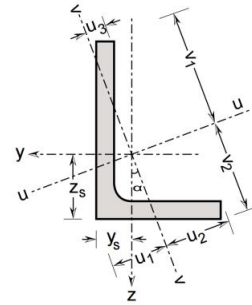
Designation		Dimensions					Position of axes						
	G kg/m	h mm	b mm	t mm	r mm	A mm <sup>2</sup> x 10 <sup>2</sup>	y <sub>s</sub> mm	z <sub>s</sub> mm	v <sub>1</sub> mm	v <sub>2</sub> mm	u <sub>1</sub> mm	u <sub>2</sub> mm	u <sub>3</sub> mm
L 100 x 50 x 6	7.04	100	50	6	12 / 2 *	8.79	10.29	34.41	66.10	43.16	18.47	30.16	10.75
L 100 x 50 x 8	9.21	100	50	8	12 / 2 *	11.51	11.16	35.49	65.28	43.96	19.55	29.59	11.53
L 100 x 50 x 10	11.32	100	50	10	12 / 2 *	14.15	11.97	36.43	64.58	44.58	20.47	29.18	12.26
L 100 x 65 x 6	7.76	100	65	6	12 / 2 *	9.69	14.55	31.49	68.90	48.30	25.43	35.15	16.28
L 100 x 65 x 7	8.97	100	65	7	12 / 2 *	11.21	15.01	32.03	68.58	48.63	26.06	34.89	16.61
L 100 x 65 x 8	10.17	100	65	8	12 / 2 *	12.71	15.44	32.51	68.29	48.90	26.63	34.70	16.92
L 100 x 65 x 9	11.36	100	65	9	12 / 2 *	14.19	15.86	32.98	68.03	49.14	27.17	34.56	17.23
L 100 x 65 x 10	12.52	100	65	10	12 / 2 *	15.65	16.26	33.42	67.79	49.36	27.68	34.45	17.54
L 100 x 75 x 6	8.24	100	75	6	12 / 2 *	10.29	17.71	29.83	70.10	53.58	29.81	36.81	21.10
L 100 x 75 x 7	9.53	100	75	7	12 / 2 *	11.91	18.17	30.35	69.86	53.82	30.47	36.61	21.35
L 100 x 75 x 8	10.81	100	75	8	12 / 2 *	13.51	18.61	30.83	69.66	54.03	31.08	36.48	21.60
L 100 x 75 x 9	12.08	100	75	9	12 / 2 *	15.09	19.03	31.28	69.47	54.20	31.66	36.40	21.86
L 100 x 75 x 10	13.32	100	75	10	12 / 2 *	16.65	19.44	31.71	69.30	54.36	32.21	36.36	22.11
L 120 x 80 x 6	9.46	120	80	6	13 / 2 *	11.82	17.61	37.00	83.17	58.73	30.86	42.90	20.25
L 120 x 80 x 8	12.43	120	80	8	13 / 2 *	15.54	18.54	38.07	82.54	59.38	32.15	42.38	20.88
L 120 x 80 x 10	15.35	120	80	10	13 / 2 *	19.18	19.38	39.00	82.04	59.86	33.27	42.08	21.49
L 130 x 65 x 6	9.24	130	65	6	14 / 2 *	11.55	12.62	43.94	86.50	55.56	23.13	39.80	13.43
L 130 x 65 x 8	12.14	130	65	8	14 / 2 *	15.17	13.54	45.14	85.56	56.53	24.35	39.07	14.25
L 130 x 65 x 10	14.97	130	65	10	14 / 2 *	18.71	14.39	46.16	84.79	57.26	25.38	38.56	15.00
L 130 x 75 x 6	9.72	130	75	6	14 / 2 *	12.15	15.37	41.92	88.46	58.50	27.74	43.52	16.88
L 130 x 75 x 8	12.78	130	75	8	14 / 2 *	15.97	16.30	43.08	87.64	59.36	29.03	42.83	17.63
L 130 x 75 x 10	15.77	130	75	10	14 / 2 *	19.71	17.16	44.07	86.97	60.00	30.12	42.39	18.33
L 130 x 90 x 10	16.97	130	90	10	14 / 2 *	21.21	21.70	41.31	89.56	66.29	37.12	46.38	24.55
L 130 x 90 x 12	20.14	130	90	12	14 / 2 *	25.17	22.52	42.19	89.13	66.68	38.19	46.20	25.13
L 140 x 90 x 8	14.40	140	90	8	15 / 2 *	18.00	20.02	44.34	96.18	67.37	35.19	48.96	22.49
L 140 x 90 x 10	17.79	140	90	10	15 / 2 *	22.24	20.90	45.35	95.57	67.97	36.39	48.53	23.14





### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

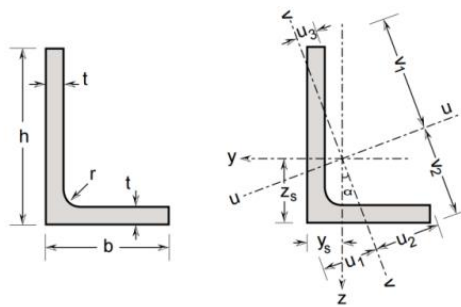


### Structural properties

Designation	Axis y-y			Axis z-z			Axis u-u		Axis v-v		$I_{yz}$	$\alpha$
	$I_y$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y$ mmx10	$I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_z$ mmx10	$I_u$ mm <sup>4</sup> x10 <sup>4</sup>	$i_u$ mmx10	$I_v$ mm <sup>4</sup> x10 <sup>4</sup>	$i_v$ mmx10		
L 100 x 50 x 6	88.89	13.55	3.18	14.77	3.72	1.30	94.05	3.27	9.61	1.05	-20.22	14.31
L 100 x 50 x 8	115.20	17.86	3.16	19.07	4.91	1.29	121.82	3.25	12.45	1.04	-26.10	14.25
L 100 x 50 x 10	139.76	21.99	3.14	23.00	6.05	1.27	147.59	3.23	15.17	1.04	-31.23	14.07
L 100 x 65 x 6	96.98	14.16	3.16	32.17	6.38	1.82	110.12	3.37	19.03	1.40	-32.01	22.33
L 100 x 65 x 7	111.74	16.44	3.16	37.03	7.41	1.82	126.93	3.36	21.84	1.40	-36.95	22.35
L 100 x 65 x 8	126.04	18.68	3.15	41.70	8.41	1.81	143.14	3.36	24.59	1.39	-41.65	22.32
L 100 x 65 x 9	139.88	20.87	3.14	46.17	9.39	1.80	158.77	3.34	27.28	1.39	-46.12	22.27
L 100 x 65 x 10	153.28	23.02	3.13	50.46	10.35	1.80	173.83	3.33	29.91	1.38	-50.35	22.20
L 100 x 75 x 6	101.58	14.48	3.14	48.81	8.52	2.18	123.74	3.47	26.65	1.61	-40.74	28.54
L 100 x 75 x 7	117.13	16.82	3.14	56.24	9.90	2.17	142.76	3.46	30.60	1.60	-47.10	28.56
L 100 x 75 x 8	132.20	19.11	3.13	63.39	11.24	2.17	161.13	3.45	34.46	1.60	-53.18	28.55
L 100 x 75 x 9	146.80	21.36	3.12	70.29	12.56	2.16	178.85	3.44	38.24	1.59	-58.99	28.52
L 100 x 75 x 10	160.96	23.57	3.11	76.93	13.85	2.15	195.94	3.43	41.94	1.59	-64.53	28.47
L 120 x 80 x 6	171.84	20.70	3.81	61.24	9.82	2.28	197.32	4.09	35.77	1.74	-58.88	23.40
L 120 x 80 x 8	224.46	27.40	3.80	79.86	12.99	2.27	257.95	4.07	46.37	1.73	-77.23	23.45
L 120 x 80 x 10	274.33	33.87	3.78	97.23	16.04	2.25	315.06	4.05	56.51	1.72	-94.19	23.38
L 130 x 65 x 6	199.86	23.22	4.16	33.54	6.40	1.70	211.55	4.28	21.86	1.38	-45.61	14.37
L 130 x 65 x 8	260.93	30.75	4.15	43.78	8.51	1.70	276.30	4.27	28.41	1.37	-59.78	14.42
L 130 x 65 x 10	318.86	38.03	4.13	53.25	10.52	1.69	337.45	4.25	34.66	1.36	-72.68	14.35
L 130 x 75 x 6	209.43	23.78	4.15	51.26	8.60	2.05	228.79	4.34	31.90	1.62	-58.62	18.27
L 130 x 75 x 8	273.83	31.50	4.14	66.98	11.41	2.05	299.37	4.33	41.44	1.61	-77.05	18.34
L 130 x 75 x 10	335.02	38.99	4.12	81.61	14.11	2.03	366.10	4.31	50.53	1.60	-94.03	18.29
L 130 x 90 x 10	356.43	40.19	4.10	139.54	20.43	2.56	416.59	4.43	79.38	1.93	-129.10	24.99
L 130 x 90 x 12	418.80	47.69	4.08	163.35	24.21	2.55	488.94	4.41	93.21	1.92	-151.12	24.90
L 140 x 90 x 8	356.66	37.29	4.45	115.73	16.54	2.54	403.89	4.74	68.50	1.95	-116.66	22.04
L 140 x 90 x 10	437.54	46.23	4.44	141.60	20.49	2.52	495.49	4.72	83.64	1.94	-143.22	22.03

### Unequal leg angles

Dimensions: in accordance with EN 10056-1: 1998  
Tolerances: EN 10056-2:1993

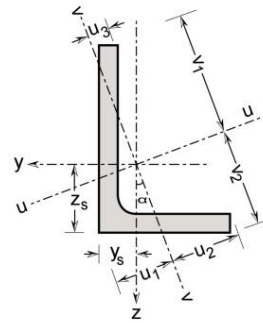


### General properties

Designation		Dimensions					Position of axes						
	G	h	b	t	r	A	y <sub>s</sub>	z <sub>s</sub>	v <sub>1</sub>	v <sub>2</sub>	u <sub>1</sub>	u <sub>2</sub>	u <sub>3</sub>
	kg/m	mm	mm	mm	mm	mm <sup>2</sup> x 10 <sup>2</sup>	mm	mm	mm	mm	mm	mm	mm
L 140 x 90 x 12	21.12	140	90	12	15 / 2 *	26.40	21.73	46.27	95.05	68.44	37.45	48.24	23.76
L 150 x 75 x 8	14.11	150	75	8	16 / 2 *	17.63	15.08	51.41	99.24	64.72	27.41	45.48	15.97
L 150 x 75 x 10	17.42	150	75	10	16 / 2 *	21.77	15.96	52.51	98.39	65.56	28.53	44.86	16.75
L 150 x 90 x 10	18.62	150	90	10	16 / 2 *	23.27	20.16	49.45	101.48	70.02	35.58	50.33	21.95
L 150 x 90 x 11	20.37	150	90	11	16 / 2 *	25.46	20.59	49.94	101.17	70.32	36.13	50.13	22.28
L 150 x 90 x 12	22.11	150	90	12	16 / 2 *	27.63	21.00	50.41	100.88	70.58	36.66	49.96	22.62
L 150 x 100 x 8	15.74	150	100	8	17 / 2 *	19.67	22.20	46.41	103.90	73.45	38.78	53.53	25.37
L 150 x 100 x 10	19.45	150	100	10	17 / 2 *	24.31	23.12	47.48	103.27	74.11	40.08	52.99	25.99
L 150 x 100 x 12	23.10	150	100	12	17 / 2 *	28.87	23.98	48.45	102.74	74.62	41.23	52.65	26.60
L 160 x 100 x 8	15.10	160	100	8	17 / 2 *	18.87	15.84	54.53	106.10	68.78	28.92	48.71	16.82
L 160 x 100 x 10	18.65	160	100	10	17 / 2 *	23.31	16.74	55.68	105.21	69.68	30.08	48.03	17.62
L 160 x 100 x 12	22.14	160	100	12	17 / 2 *	27.67	17.59	56.69	104.44	70.41	31.11	47.53	18.38
L 180 x 90 x 8	17.05	180	90	8	18 / 2 *	21.31	17.41	60.95	119.63	77.14	32.08	55.10	18.65
L 180 x 90 x 10	21.08	180	90	10	18 / 2 *	26.35	18.33	62.15	118.69	78.11	33.31	54.36	19.47
L 180 x 90 x 12	25.05	180	90	12	18 / 2 *	31.31	19.20	63.20	117.89	78.88	34.37	53.81	20.24
L 200 x 100 x 8	19.03	200	100	8	20 / 2 *	23.79	18.91	67.11	133.42	85.18	35.02	61.64	20.34
L 200 x 100 x 10	23.54	200	100	10	20 / 2 *	29.43	19.87	68.41	132.37	86.29	36.36	60.78	21.18
L 200 x 100 x 12	27.99	200	100	12	20 / 2 *	34.99	20.76	69.53	131.51	87.15	37.50	60.14	21.98
L 200 x 100 x 15	34.54	200	100	15	20 / 2 *	43.18	22.03	71.03	130.39	88.20	39.01	59.41	23.11
L 200 x 100 x 16	36.70	200	100	16	20 / 2 *	45.87	22.44	71.50	130.05	88.51	39.47	59.20	23.47
L 200x150x12	32.79	200	150	12	20 / 2 *	40.99	35.76	60.23	139.75	107.72	60.30	73.43	42.75
L 200x150x15	40.54	200	150	15	20 / 2 *	50.68	37.05	61.63	139.17	108.29	62.10	73.11	43.52

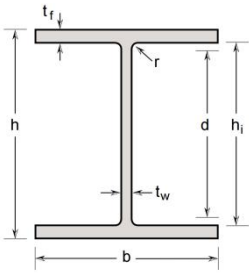
### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



### Structural properties

Designation	Axis y-y			Axis z-z			Axis u-u		Axis v-v		$I_{yz}$	$\alpha$
	$I_y$ $mm^4 \times 10^4$	$W_{el,y}$ $mm^3 \times 10^3$	$i_y$ $mm \times 10$	$I_z$ $mm^4 \times 10^4$	$W_{el,z}$ $mm^3 \times 10^3$	$i_z$ $mm \times 10$	$I_u$ $mm^4 \times 10^4$	$i_u$ $mm \times 10$	$I_v$ $mm^4 \times 10^4$	$i_v$ $mm \times 10$		
L 140 x 90 x 12	514.77	54.92	4.42	165.95	24.31	2.51	582.48	4.70	98.25	1.93	-167.93	21.96
L 150 x 75 x 8	405.62	41.14	4.80	68.20	11.38	1.97	429.53	4.94	44.29	1.8	-92.95	14.3
L 150 x 75 x 10	497.47	51.03	4.78	83.43	14.13	1.96	526.75	4.92	54.15	1.58	-113.92	14.41
L 150 x 90 x 10	529.28	52.64	4.77	143.35	20.53	2.48	585.36	5.01	87.27	1.94	-157.44	19.61
L 150 x 90 x 11	576.86	57.65	4.76	155.96	22.47	2.47	637.84	5.00	94.98	1.93	-171.42	19.58
L 150 x 90 x 12	623.42	62.60	4.75	168.20	24.38	2.47	689.05	4.99	102.56	1.93	-184.90	19.54
L 150 x 100 x 8	444.79	42.94	4.76	158.12	20.32	2.84	510.51	5.09	92.40	2.17	-152.19	23.36
L 150 x 100 x 10	547.00	53.36	4.74	194.25	25.27	2.83	628.27	5.08	112.97	2.16	-187.82	23.40
L 150 x 100 x 12	644.93	63.51	4.73	228.42	30.05	2.81	740.52	5.06	132.83	2.14	-221.26	23.37
L 160 x 100 x 8	494.59	46.89	5.12	83.18	12.97	2.10	523.70	5.27	54.07	1.69	-113.25	14.42
L 160 x 100 x 10	607.50	58.23	5.11	102.03	16.13	2.09	643.33	5.25	66.19	1.69	-139.28	14.43
L 160 x 100 x 12	715.68	69.28	5.09	119.71	19.18	2.08	757.53	5.23	77.86	1.68	-163.38	14.37
L 180 x 90 x 8	711.08	59.73	5.78	120.27	16.57	2.38	753.17	5.95	78.18	1.92	-163.22	14.46
L 180 x 90 x 10	875.31	74.27	5.76	147.97	20.65	2.37	927.42	5.93	95.86	1.91	-201.54	14.50
L 180 x 90 x 12	1033.42	88.48	5.75	174.10	24.59	2.36	1094.66	5.91	112.87	1.90	-237.43	14.46
L 200 x 100 x 8	980.96	73.82	6.42	165.71	20.44	2.64	1038.63	6.61	108.04	2.13	-224.37	14.41
L 200 x 100 x 10	1210.15	91.97	6.41	204.73	25.55	2.64	1282.11	6.60	132.77	2.12	-278.44	14.49
L 200 x 100 x 12	1431.61	109.73	6.40	241.73	30.51	2.63	1516.76	6.58	156.58	2.12	-329.50	14.49
L 200 x 100 x 15	1749.93	135.69	6.37	293.81	37.68	2.61	1852.80	6.55	190.94	2.10	-400.47	14.41
L 200 x 100 x 16	1852.47	144.16	6.35	310.33	40.01	2.60	1960.70	6.54	202.10	2.10	-422.63	14.36
L 200x150x12	1639.07	117.27	6.32	792.10	69.34	4.40	2002.54	6.99	428.64	3.23	-663.29	28.72
L 200x150x15	2009.27	145.21	6.30	968.62	85.76	4.37	2454.43	6.96	523.46	3.21	-813.28	28.69

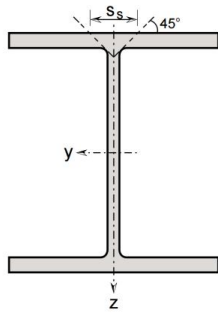


## European wide flange beams

Dimensions: HE A, B, M in accordance with DIN 1025 HE AA according to Montanstahl mill standard  
Tolerances: EN 10034: 1993

### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r * mm	A mm <sup>2</sup> x 10 <sup>2</sup>	h <sub>i</sub> mm	d mm
HE 100 AA	11.5	91	100	4.2	5.5	2	14.39	80.0	76.0
HE 100 A	16.0	96	100	5	8	2	20.03	80.0	76.0
HE 100 B	19.9	100	100	6	10	2	24.83	80.0	76.0
HE 100 M	41.6	120	106	12	20	2	52.03	80.0	76.0
HE 120 AA	13.9	109	120	4.2	5.5	2	17.35	98.0	94.0
HE 120 A	19.3	114	120	5	8	2	24.13	98.0	94.0
HE 120 B	26.2	120	120	6.5	11	2	32.80	98.0	94.0
HE 120 M	52.2	140	126	12.5	21	2	65.20	98.0	94.0
HE 140 AA	17.5	128	140	4.3	6	2	21.82	116.0	112.0
HE 140 A	24.2	133	140	5.5	8.5	2	30.21	116.0	112.0
HE 140 B	33.4	140	140	7	12	2	41.75	116.0	112.0
HE 140 M	63.5	160	146	13	22	2	79.35	116.0	112.0
HE 160 AA	22.8	148	160	4.5	7	2	28.46	134.0	130.0
HE 160 A	29.5	152	160	6	9	2	36.87	134.0	130.0
HE 160 B	41.9	160	160	8	13	2	52.35	134.0	130.0
HE 160 M	76.1	180	166	14	23	2	95.15	134.0	130.0
HE 180 AA	27.7	167	180	5	7.5	2	34.63	152.0	148.0
HE 180 A	34.7	171	180	6	9.5	2	43.35	152.0	148.0
HE 180 B	50.7	180	180	8.5	14	2	63.35	152.0	148.0
HE 180 M	89.1	200	186	14.5	24	2	111.35	152.0	148.0
HE 200 AA	33.1	186	200	5.5	8	2	41.38	170.0	166.0
HE 200 A	40.9	190	200	6.5	10	2	51.08	170.0	166.0
HE 200 B	60.3	200	200	9	15	2	75.33	170.0	166.0
HE 200 M	102.8	220	206	15	25	2	128.53	170.0	166.0



## Stainless steel

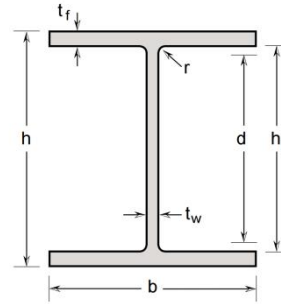
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

### Structural properties

Designation	Strong axis y-y					Weak axis z-z				S <sub>s</sub>	I <sub>t</sub>	I <sub>w</sub>
	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	A <sub>vz</sub> mm <sup>2</sup> x10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10			
HE 100 AA	219.77	48.30	53.88	3.91	3.85	91.72	18.34	27.86	2.52	17.54	1.35	1.68
HE 100 A	332.48	69.27	78.54	4.07	4.75	133.42	26.68	40.51	2.58	23.34	3.76	2.58
HE 100 B	432.80	86.56	99.74	4.17	5.83	166.81	33.36	50.73	2.59	28.34	7.20	3.38
HE 100 M	1125.87	187.65	231.34	4.65	12.83	398.17	75.13	115.26	2.77	54.34	59.33	9.93
HE 120 AA	387.59	71.12	78.56	4.73	4.60	158.46	26.41	40.04	3.02	17.54	1.61	4.24
HE 120 A	580.38	101.82	113.93	4.90	5.65	230.51	38.42	58.22	3.09	23.34	4.52	6.47
HE 120 B	838.60	139.77	159.65	5.06	7.56	317.03	52.84	80.25	3.11	30.84	11.45	9.41
HE 120 M	1991.80	284.54	345.05	5.53	15.75	701.74	111.39	170.55	3.28	56.84	81.83	24.79
HE 140 AA	682.70	106.67	117.14	5.59	5.52	274.48	39.21	59.35	3.55	18.64	2.36	10.21
HE 140 A	996.38	149.83	166.85	5.74	7.22	388.90	55.56	84.19	3.59	24.84	6.40	15.06
HE 140 B	1472.48	210.35	238.79	5.94	9.47	549.14	78.45	119.03	3.63	33.34	17.29	22.48
HE 140 M	3254.61	406.83	487.19	6.40	18.85	1143.26	156.61	239.40	3.80	59.34	109.16	54.33
HE 160 AA	1206.00	162.97	178.35	6.51	6.66	477.97	59.75	90.29	4.10	20.84	4.09	23.75
HE 160 A	1596.10	210.01	233.08	6.58	8.97	614.65	76.83	116.42	4.08	26.34	8.78	31.41
HE 160 B	2415.12	301.89	341.90	6.79	12.31	888.05	111.01	168.56	4.12	36.34	25.55	47.94
HE 160 M	5021.39	557.93	662.50	7.26	22.93	1756.56	211.63	323.49	4.30	62.34	143.70	108.05
HE 180 AA	1866.77	223.57	244.46	7.34	8.31	729.16	81.02	122.46	4.59	22.34	5.73	46.36
HE 180 A	2410.16	281.89	311.08	7.46	10.10	923.68	102.63	155.28	4.62	27.34	11.39	60.21
HE 180 B	3731.00	414.56	467.68	7.67	14.70	1361.59	151.29	229.56	4.64	38.84	35.75	93.75
HE 180 M	7383.00	738.30	869.68	8.14	26.51	2577.82	27.19	423.17	4.81	64.84	182.86	199.33
HE 200 AA	2764.06	297.21	324.83	8.17	10.14	1066.91	106.69	161.30	5.08	23.84	7.82	84.49
HE 200 A	3511.91	369.67	407.25	8.29	12.13	1333.73	133.37	201.81	5.11	28.84	14.91	108.00
HE 200 B	5515.93	551.59	620.32	8.56	17.28	2001.04	200.10	303.46	5.15	41.34	48.68	171.13
HE 200 M	10461.66	951.06	1112.92	9.02	30.28	3647.23	354.10	540.04	5.33	67.34	228.77	346.26

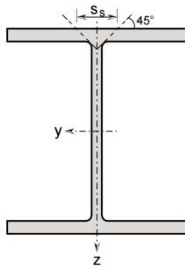
## European wide flange beams

Dimensions: HE A, B, M in accordance with DIN  
 1025 HE AA according to Montanstahl mill standard  
 Tolerances: EN 10034: 1993



### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r* mm	A mm <sup>2</sup> x 10 <sup>2</sup>	h <sub>i</sub> mm	d mm
HE 220 AA	39	205	220	6	8.5	2	48.71	188	18
HE 220 A	49.3	210	220	7	11	2	61.59	188	184
HE 220 B	70.6	220	220	9.5	16	2	88.29	188	184
HE 220 M	117.4	240	226	15.5	26	2	146.69	188	184
HE 240 AA	45.3	224	240	6.5	9	2	56.62	206	202
HE 240 A	58.5	230	240	7.5	12	2	73.08	206	202
HE 240 B	81.8	240	240	10	17	2	102.23	206	202
HE 240 M	159.7	270	248	18	32	21	199.59	206	164
HE 260 AA	51.2	244	260	6.5	9.5	2	64.06	225	221
HE 260 A	65.5	250	260	7.5	12.5	2	81.91	225	221
HE 260 B	90.8	260	260	10	17.5	2	113.53	225	221
HE 260 M	171.8	290	268	18	32.5	2	214.73	225	221
HE 280 AA	58.5	264	280	7	10	2	73.11	244	240
HE 280 A	73.9	270	280	8	13	2	92.35	244	240
HE 280 B	101.2	280	280	10.5	18	2	126.45	244	240
HE 280 M	188.2	310	288	18.5	33	2	235.25	244	240
HE 300 AA	66.1	283	300	7.5	10.5	2	82.68	262	258
HE 300 A	85	290	300	8.5	14	2	106.3	262	258
HE 300 B	114.3	300	300	11	19	2	142.85	262	258
HE 300 M	237.5	340	310	21	39	2	296.85	262	258
HE 320 AA	70.7	301	300	8	11	2	88.35	279	275
HE 320 A	94.5	310	300	9	15.5	2	118.14	279	275
HE 320 B	124.1	320	300	11.5	20.5	2	155.12	279	275
HE 320 M	244.7	359	309	21	40	2	305.82	279	275



### Stainless steel

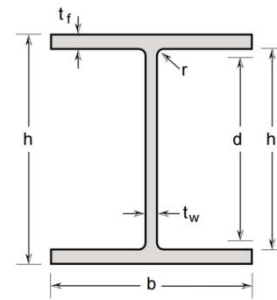
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

## Structural properties

Designation	Strong axis y-y					Weak axis z-z				S <sub>s</sub> mm	I <sub>t</sub> mm <sup>4</sup> x10 <sup>4</sup>	I <sub>w</sub> mm <sup>6</sup> x10 <sup>9</sup>
	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	A <sub>vz</sub> mm <sup>2</sup> x10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10			
HE 220 AA	3947.74	385.15	420.79	9.00	12.16	1508.81	137.16	207.40	5.57	25.34	10.43	145.61
HE 220 A	5187.21	494.02	543.75	9.18	14.40	1952.68	177.52	268.52	5.63	31.34	21.65	193.27
HE 220 B	7868.48	715.32	802.34	9.44	20.05	2840.82	258.26	391.46	5.67	43.84	64.78	295.42
HE 220 M	14382.34	1198.53	1394.74	9.90	34.24	5007.90	443.18	675.31	5.84	69.84	282.13	572.68
HE 240 AA	5472.34	488.60	533.71	9.83	14.37	2074.08	172.84	261.39	6.05	26.84	13.64	239.63
HE 240 A	7400.34	643.51	707.76	10.06	16.86	2765.53	230.46	348.51	6.15	33.84	30.47	328.49
HE 240 B	10896.46	908.04	1016.28	10.32	23.01	3918.53	326.54	494.77	6.19	46.34	84.54	486.95
HE 240 M	24299.58	1799.97	2116.95	11.03	60.07	8152.04	657.42	1005.93	6.39	106.60	627.90	1151.99
HE 260 AA	7416.32	607.89	661.87	10.76	15.66	2783.39	214.11	323.49	6.59	27.84	16.98	382.58
HE 260 A	9890.71	791.26	867.18	10.99	18.35	3662.46	281.73	425.68	6.69	34.84	36.85	516.35
HE 260 B	14355.18	1104.24	1230.32	11.24	24.98	5128.22	394.48	597.14	6.72	47.34	99.19	753.65
HE 260 M	30742.61	2120.18	2471.02	11.97	47.68	10437.42	778.91	1185.40	6.97	85.34	637.76	1728.35
HE 280 AA	9889.38	749.20	815.81	11.63	18.21	3659.37	261.38	395.00	7.07	29.34	21.54	590.11
HE 280 A	13004.70	963.31	1054.97	11.87	21.11	4757.31	339.81	513.52	7.18	36.34	45.01	785.37
HE 280 B	18601.67	1328.69	1477.18	12.13	28.26	6587.96	470.57	712.34	7.22	48.84	117.02	1130.15
HE 280 M	38878.74	2508.31	2908.38	12.86	52.60	13151.24	913.28	1389.49	7.48	86.84	721.48	2520.23
HE 300 AA	12831.05	906.79	987.53	12.46	20.89	4725.93	315.06	476.20	7.56	30.84	26.95	877.15
HE 300 A	17290.45	1192.44	1305.52	12.75	24.05	6301.35	420.09	634.75	7.70	38.84	59.95	1199.77
HE 300 B	24192.63	1612.84	1790.92	13.01	31.70	8552.92	570.19	862.95	7.74	51.34	147.14	1687.79
HE 300 M	58227.97	3425.17	3999.92	14.01	64.80	19384.41	1250.61	1902.87	8.08	101.34	1263.06	4386.03
HE 320 AA	15337.64	1019.11	113.16	13.18	23.67	4951.20	330.08	499.48	7.49	32.34	31.53	1040.74
HE 320 A	21818.87	1407.67	1545.04	13.59	27.16	6976.70	465.11	703.17	7.68	42.34	80.62	1512.36
HE 320 B	29713.82	1857.11	2066.20	13.84	35.30	9228.55	615.24	931.75	7.71	54.84	183.85	2068.71
HE 320 M	67025.12	3733.99	4351.98	14.80	68.62	19690.66	1274.48	1940.42	8.02	103.34	1353.67	5003.86
HE 340 AA	18288.04	1143.00	1252.28	13.93	26.72	5176.53	345.10	522.88	7.41	33.84	36.69	1231.29

## European wide flange beams

Dimensions: HE A, B, M in accordance with DIN 1025  
 HE AA according to Montanstahl mill standard  
 Tolerances: EN 10034: 1993



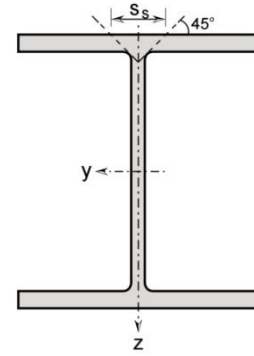
### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r* mm	A mm <sup>2</sup> x 10 <sup>2</sup>	h <sub>i</sub> mm	d mm
HE 340 AA	75.4	320	300	8.5	11.5	2	94.28	297.0	293.0
HE 340 A	101.8	330	300	9.5	16.5	2	127.25	297.0	293.0
HE 340 B	131.7	340	300	12	21.5	2	164.67	297.0	293.0
HE 340 M	247.7	377	309	21	40	2	309.60	297.0	293.0
HE 360 AA	80.3	339	300	9	12	2	100.38	315.0	311.0
HE 360 A	109.2	350	300	10	17.5	2	136.53	315	311
HE 360 B	139.5	360	300	12.5	22.5	2	174.41	315	311
HE 360 M	250.1	395	308	21	40	2	312.58	315.0	311.0
HE 400 AA	89.2	378	300	9.5	13	2	111.47	352.0	348.0
HE 400 A	122.2	390	300	11	19	2	152.75	352.0	348.0
HE 400 B	153.2	400	300	13.5	24	2	191.55	352.0	348.0
HE 400 M	255.6	432	307	21	40	2	319.55	352.0	348.0
HE 450 AA	96.7	425	300	10	13.5	2	120.83	398.0	394.0
HE 450 A	137.4	440	300	11.5	21	2	171.8	398	394
HE 450 B	169.4	450	300	14	26	2	211.75	398	394
HE 450 M	263.4	478	307	21	40	2	329.21	398.0	394.0
HE 500 AA	104.5	472	300	10.5	14	2	130.65	444.0	440.0
HE 500 A	153.1	490	300	12	23	2	191.31	444.0	440.0
HE 500 B	185.9	500	300	14.5	28	2	232.41	444.0	440.0
HE 500 M	270.5	524	306	21	40	2	338.07	444.0	440.0
HE 550 AA	117.3	522	300	11.5	15	2	146.61	492.0	488.0
HE 550 A	164.4	540	300	12.5	24	2	205.53	492	488
HE 550 B	198.3	550	300	15	29	2	247.83	492	488
HE 550 M	278.5	572	306	21	40	2	348.15	492.0	488.0



## Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

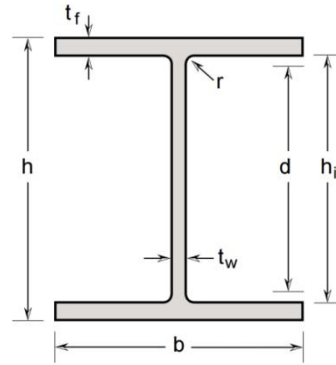


## Structural properties

Designation	Strong axis y-y					Weak axis z-z						
	$I_y$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y$ mmx10	$A_{vz}$ mm <sup>2</sup> x10 <sup>2</sup>	$I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_z$ mmx10	$S_s$ mm	$I_t$ mm <sup>4</sup> x10 <sup>4</sup>	$I_w$ mm <sup>6</sup> x10 <sup>9</sup>
HE 340 A	26428.86	1601.75	1761.83	14.41	30.48	7427.13	495.14	749.22	7.64	44.84	97.44	1824.36
HE 340 B	35392.15	2081.89	2319.46	14.66	39.11	9679.29	645.29	978.21	7.67	57.34	212.62	2453.63
HE 340 M	75107.43	3984.48	4628.93	15.58	72.40	19692.05	1274.57	1942.40	7.98	103.34	1359.22	5584.50
HE 360 AA	21608.52	1274.84	401.00	14.67	29.94	5401.92	360.13	546.40	7.34	35.34	42.46	443.54
HE 360 A	31660.94	1809.20	1994.23	15.23	33.98	7877.64	525.18	795.39	7.60	47.34	116.48	2176.58
HE 360 B	41764.60	2320.26	2588.74	15.47	43.12	10130.14	675.34	1024.83	7.62	59.84	244.31	2883.25
HE 360 M	83438.18	4224.72	4895.07	16.34	76.18	19503.09	1266.43	1932.05	7.90	103.34	1360.51	6137.02
HE 400 AA	29453.23	1558.37	1718.37	16.25	35.23	5852.52	390.17	592.96	7.25	37.84	54.22	1948.42
HE 400 A	43270.53	2219.00	2456.04	16.83	41.60	8553.92	570.26	865.67	7.48	51.34	151.13	2942.08
HE 400 B	55881.66	2794.08	3125.98	17.08	51.75	10807.23	720.48	1096.06	7.51	63.84	300.23	3817.15
HE 400 M	102320.23	4737.05	5464.86	17.89	83.95	19316.84	1258.43	1923.83	7.77	103.34	1367.67	7410.30
HE 450 AA	39569.35	1862.09	2063.27	18.10	41.72	6078.33	405.22	617.47	7.09	39.34	62.75	2571.73
HE 450 A	61403.35	2791.06	3095.79	18.91	49.06	9455.06	630.34	958.18	7.42	55.84	202.31	4147.63
HE 450 B	77569.28	3447.52	3862.30	19.14	60.43	11709.12	780.61	1189.53	7.44	68.34	379.89	5258.45
HE 450 M	129166.06	5404.44	6210.94	19.81	93.61	19320.39	1258.66	1928.90	7.66	103.34	1381.87	9251.50
HE 500 AA	51739.75	2192.36	2441.84	19.90	48.68	6304.29	420.29	642.26	6.95	40.84	72.36	3303.78
HE 500 A	84071.23	3431.48	3814.47	20.96	56.99	10356.41	690.43	1051.01	7.36	60.34	263.81	5643.05
HE 500 B	104272.24	4170.89	4680.18	21.18	69.59	12611.30	840.75	1283.36	7.37	72.84	472.29	7017.70
HE 500 M	159025.39	6069.67	6959.88	21.69	103.27	19136.05	1250.72	1921.71	7.52	103.34	1391.80	11186.75
HE 550 AA	69286.92	2654.67	2978.28	21.74	58.94	6756.25	450.42	691.29	6.79	43.84	92.96	4337.70
HE 550 A	108347.76	4012.88	4472.49	22.96	65.49	10808.02	720.53	1099.24	7.25	62.84	302.37	7188.91
HE 550 B	133106.42	4840.23	5441.28	23.17	79.34	13063.86	870.92	1332.70	7.26	75.34	529.36	8855.76
HE 550 M	194399.50	6797.19	7783.36	23.63	113.35	19139.76	1250.96	1927.00	7.41	103.34	1406.62	13515.63
HE 600 AA	87534.88	3066.02	3458.80	23.55	67.31	6982.79	465.52	716.96	6.65	45.34	106.20	5380.87
HE 600 A	136871.05	4639.70	5186.13	24.93	74.48	11259.90	750.66	1147.84	7.15	65.34	344.73	8978.20

## European wide flange beams

Dimensions: HE A, B, M in accordance with DIN 1025  
 HE AA according to Montanstahl mill standard  
 Tolerances: EN 10034: 1993

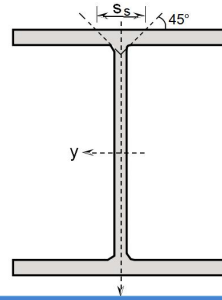


### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r * mm	A mm <sup>2</sup> x10 <sup>2</sup>	h <sub>i</sub> mm	d mm
HE 600 AA	126.3	571	300	12	15.5	2	157.83	540.0	536.0
HE 600 A	176.2	590	300	13	25	2	220.23	540.0	536.0
HE 600 B	211.0	600	300	15.5	30	2	263.73	540.0	536.0
HE 600 M	285.9	620	305	21	40	2	357.43	540.0	536.0
HE 650 AA	135.6	620	300	12.5	16	2	169.53	588.0	584.0
HE 650 A	188.3	640	300	13.5	26	2	235.41	588.0	584.0
HE 650 B	224.1	650	300	16	31	2	280.11	588.0	584.0
HE 650 M	294.0	668	305	21	40	2	367.51	588.0	584.0
HE 700 AA	147.8	670	300	13	17	2	184.71	636.0	632.0
HE 700 A	203.4	690	300	14.5	27	2	254.25	636.0	632.0
HE 700 B	240.1	700	300	17	32	2	300.15	636.0	632.0
HE 700 M	301.4	716	304	21	40	2	376.79	636.0	632.0
HE 800 AA	168.6	770	300	14	18	2	210.79	734.0	730.0
HE 800 A	222.5	790	300	15	28	2	278.13	734.0	730.0
HE 800 B	261.2	800	300	17.5	33	2	326.48	734.0	730.0
HE 800 M	317.3	814	303	21	40	2	396.57	734.0	730.0
HE 900 AA	195.6	870	300	15	20	2	244.53	830.0	826.0
HE 900 A	250.3	890	300	16	30	2	312.83	830.0	826.0
HE 900 B	290.9	900	300	18.5	35	2	363.58	830.0	826.0
HE 900 M	332.7	910	302	21	40	2	415.93	830.0	826.0
HE 1000 AA	219.6	970	300	16	21	2	274.51	928.0	924.0
HE 1000 A	271.3	990	300	16.5	31	2	339.15	928.0	924.0
HE 1000 B	313.9	1000	300	19	36	2	392.35	928.0	924.0
HE 1000 M	349.2	1008	302	21	40	2	436.51	928.0	924.0

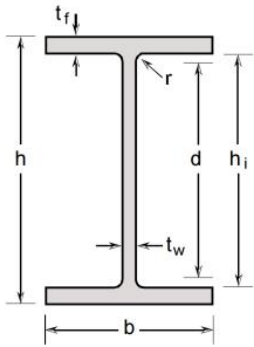
## Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



## Structural properties

Designation	Strong axis y-y					Weak axis z-z					S <sub>s</sub> mm	I <sub>t</sub> mm <sup>4</sup> ×10 <sup>4</sup>	I <sub>w</sub> mm <sup>6</sup> ×10 <sup>9</sup>
	I <sub>y</sub> mm <sup>4</sup> ×10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> ×10 <sup>3</sup>	W <sub>pl,y</sub> mm <sup>3</sup> ×10 <sup>3</sup>	i <sub>y</sub> mm×10	A <sub>vz</sub> mm <sup>2</sup> ×10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> ×10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> ×10 <sup>3</sup>	W <sub>pl,z</sub> mm <sup>3</sup> ×10 <sup>3</sup>	i <sub>z</sub> mm×10				
HE 600 B	166704.05	5556.80	6260.88	25.14	89.58	13516.78	901.12	1382.46	7.16	77.84	591.14	10965.38	
HE 600 M	233110.48	7519.69	8607.83	25.54	123.43	18956.80	1243.07	1920.07	7.28	103.34	1417.17	15907.59	
HE 650 AA	108782.73	3509.12	3980.66	25.33	76.17	7209.59	480.64	742.99	6.52	46.84	120.94	6566.69	
HE 650 A	170016.88	5313.03	5957.09	26.87	83.96	11712.07	780.80	1196.82	7.05	67.84	391.09	11027.13	
HE 650 B	205454.74	6321.68	7140.68	27.08	100.31	13970.09	931.34	1432.66	7.06	80.34	657.86	13362.74	
HE 650 M	276506.22	8278.63	9477.76	27.43	133.51	18960.50	1243.31	1925.36	7.18	103.34	1431.99	18649.52	
HE 700 AA	136663.26	4079.50	4646.00	27.20	85.60	7661.66	510.78	791.89	6.44	49.34	145.51	155.07	
HE 700 A	209244.00	6065.04	6837.69	28.69	97.25	12166.18	811.08	1248.46	6.92	70.84	448.81	13351.91	
HE 700 B	250831.07	7166.60	8133.00	28.91	114.87	14426.07	961.74	1485.98	6.93	83.34	739.76	16064.06	
HE 700 M	323220.70	9028.51	10344.85	29.29	143.59	18778.77	1235.45	1918.48	7.06	103.34	1442.54	21397.49	
HE 800 AA	198896.85	5166.15	5947.70	30.72	106.03	8116.80	541.12	845.99	6.21	52.34	184.73	11451.46	
HE 800 A	293457.24	7429.30	8422.39	32.48	115.45	12620.67	841.38	1301.31	6.74	73.34	510.51	18290.29	
HE 800 B	349098.22	8727.46	9951.62	32.70	135.58	14882.81	992.19	1541.23	6.75	85.84	827.34	21840.23	
HE 800 M	432612.60	10629.30	12210.61	33.03	164.17	18602.11	1227.86	1917.14	6.85	103.34	1468.53	27775.29	
HE 900 AA	288322.38	6628.10	7684.80	34.34	128.33	9023.37	601.56	946.71	6.07	57.34	254.07	16256.25	
HE 900 A	409252.28	9196.68	10497.02	36.17	138.83	13528.36	901.89	1403.15	6.58	78.34	638.35	24961.50	
HE 900 B	481242.00	10694.27	12270.09	36.38	161.46	15793.83	1052.92	1646.05	6.59	90.84	1003.74	29461.36	
HE 900 M	557611.47	12255.20	14127.75	36.61	184.33	18426.50	1220.30	1915.63	6.66	103.34	1493.89	34746.26	
HE 1000 AA	390366.57	8048.80	9425.03	37.71	152.71	9481.70	632.11	1004.42	5.88	60.34	312.95	21276.70	
HE 1000 A	537761.48	10863.87	12472.68	39.82	159.51	13984.77	932.32	1458.19	6.42	80.84	717.54	32073.87	
HE 1000 B	628663.54	12573.27	14503.42	40.03	184.63	16253.08	1083.54	1703.79	6.44	93.34	1112.68	37636.49	
HE 1000 M	706214.69	14012.20	16216.25	40.22	204.91	18434.06	1220.80	1926.43	6.50	103.34	1524.15	43015.04	



## European I beams

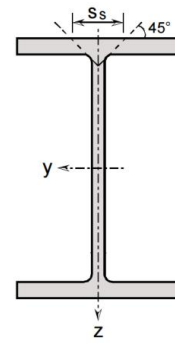
Dimensions: IPE in accordance with DIN 1025  
 IPE AAAA - A, O according to Montanstahl mill standard  
 Tolerances: EN 10034: 1993

### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	T <sub>w</sub> mm	t <sub>f</sub> mm	r* mm	A mm <sup>2</sup> x10 <sup>2</sup>	H <sub>i</sub> mm	d mm
IPE AAAA 80	3.9	76	46	2.9	3.1	2	4.91	69.8	65.8
IPE AAA 80	4.7	78	46	3	4	2	5.81	70.0	66.0
IPE AA 80	4.9	78	46	3.2	4.2	2	6.13	69.6	65.6
IPE A 80	5.0	78	46	3.3	4.2	2	6.20	69.6	65.6
IPE 80	6.0	80	46	3.8	5.2	2	7.46	69.6	65.6
IPE AAAA 100	5.3	96	55	2.9	3.6	2	6.57	88.8	84.8
IPE AAA 100	6.5	97	55	3.6	4.5	2	8.15	88.0	84.0
IPE AA 100	6.5	97.6	55	3.6	4.5	2	8.17	88.6	84.6
IPE A 100	6.7	98	55	3.6	4.7	2	8.39	88.6	84.6
IPE 100	7.9	100	55	4.1	5.7	2	9.94	88.6	84.6
IPE AAAA 120	6.6	115	64	3	3.9	2	8.24	107.2	103.2
IPE AAA 120	7.8	117	64	3.5	4.6	2	9.70	107.8	103.8
IPE AA 120	8.2	117	64	3.8	4.8	2	10.26	107.4	103.4
IPE A 120	8.5	117.6	64	3.8	5.1	2	10.64	107.4	103.4
IPE 120	10.3	120	64	4.4	6.3	2	12.82	107.4	103.4
IPE AAAA 140	8.1	134	73	3.3	4.1	2	10.17	125.8	121.8
IPE AAA 140	9.4	136	73	3.5	5	2	11.74	126.0	122.0
IPE AA 140	9.9	136.6	73	3.8	5.2	2	12.42	126.2	122.2
IPE A 140	10.4	137.4	73	3.8	5.6	2	13.01	126.2	122.2
IPE 140	12.8	140	73	4.7	6.9	2	16.04	126.2	122.2
IPE AAAA 160	9.9	154	82	3.6	4.3	2	12.32	145.4	141.4
IPE AAA 160	11.4	156	82	3.7	5.4	2	14.26	145.2	141.2
IPE AA 160	12.0	156.4	82	4	5.6	2	15.03	145.2	141.2
IPE A 160	12.4	157	82	4	5.9	2	15.52	145.2	141.2
IPE 160	15.5	160	82	5	7.4	2	19.43	145.2	141.2

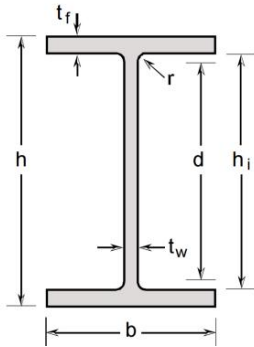
## Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



## Structural properties

Designation	Strong axis y-y					Weak axis z-z							
	$I_y$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y$ mmx10	$A_{vz}$ mm <sup>2</sup> x10 <sup>2</sup>	$I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_z$ mmx10	$S_s$ mm	$I_t$ mm <sup>4</sup> x10 <sup>4</sup>	$I_w$ mm <sup>6</sup> x10 <sup>9</sup>	
IPE AAAA 80	46.54	12.25	14.05	3.08	2.27	5.04	2.19	3.43	1.01	11.44	0.16	0.07	
IPE AAA 80	59.41	15.23	17.41	3.20	2.41	6.51	2.83	4.40	1.06	13.34	0.28	0.09	
IPE AA 80	62.07	15.91	18.25	3.18	2.56	6.83	2.97	4.63	1.06	13.94	0.32	0.09	
IPE A 80	62.35	15.99	18.37	3.17	2.64	6.84	2.97	4.64	1.05	14.04	0.33	0.09	
IPE 80	78.11	19.53	22.61	3.24	3.08	8.47	3.68	5.76	1.07	16.54	0.59	0.12	
IPE AAAA 100	102.15	21.28	24.16	3.94	2.86	10.00	3.64	5.64	1.23	12.44	0.26	0.21	
IPE AAA 100	127.06	26.20	30.01	3.95	3.54	12.51	4.55	7.10	1.24	14.94	0.50	0.27	
IPE AA 100	128.87	26.41	30.26	3.97	3.57	12.51	4.55	7.10	1.24	14.94	0.50	0.27	
IPE A 100	134.13	27.37	31.33	4.00	3.58	13.07	4.75	7.40	1.25	15.34	0.54	0.28	
IPE 100	163.98	32.80	37.76	4.06	4.13	15.86	5.77	9.00	1.26	17.84	0.92	0.35	
IPE AAAA 120	185.88	32.33	36.53	4.75	3.52	17.06	5.33	8.24	1.44	13.14	0.37	0.53	
IPE AAA 120	223.59	38.22	43.44	4.80	4.15	20.14	6.29	9.76	1.44	15.04	0.59	0.63	
IPE AA 120	233.69	39.95	45.61	4.77	4.49	21.02	6.57	10.23	1.43	15.74	0.70	0.66	
IPE A 120	246.90	41.99	47.86	4.82	4.51	22.33	6.98	10.84	1.45	16.34	0.79	0.71	
IPE 120	307.29	51.21	58.71	4.90	5.29	27.60	8.63	13.43	1.47	19.34	1.41	0.89	
IPE AAAA 140	308.69	46.07	52.15	5.51	4.49	26.62	7.29	11.27	1.62	13.84	0.51	1.12	
IPE AAA 140	373.03	54.86	61.92	5.64	4.82	32.46	8.89	13.72	1.66	15.84	0.81	1.39	
IPE AA 140	392.88	57.52	65.22	5.62	5.24	33.77	9.25	14.32	1.65	16.54	0.94	1.46	
IPE A 140	420.28	61.18	69.23	5.68	5.27	36.37	9.96	15.38	1.67	17.34	1.11	1.58	
IPE 140	526.64	75.23	85.97	5.73	6.57	44.85	12.29	19.09	1.67	20.84	2.07	1.98	
IPE AAAA 160	489.21	63.53	72.06	6.30	5.60	39.57	9.65	14.94	1.79	14.54	0.69	2.21	
IPE AAA 160	598.54	76.74	86.44	6.48	5.82	49.69	12.12	18.66	1.87	16.84	1.13	2.81	
IPE AA 160	626.20	80.08	90.58	6.46	6.29	51.54	12.57	19.42	1.85	17.54	1.30	2.93	
IPE A 160	656.40	83.62	94.43	6.50	6.31	54.30	13.24	20.43	1.87	18.14	1.46	3.09	
IPE 160	836.41	104.55	119.20	6.56	7.96	68.16	16.62	25.80	1.87	22.14	2.86	3.96	



## European I beams

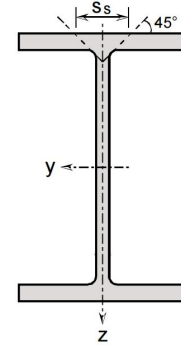
Dimensions: IPE in accordance with DIN 1025  
 IPE AAAAA - A, O according to Montanstahl mill standard  
 Tolerances: EN 10034: 1993

### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r* mm	A mm <sup>2</sup> x 10 <sup>2</sup>	h <sub>i</sub> mm	d mm
IPE AAAAA 180	12.3	174	91	3.9	4.9	2	15.36	164.2	160.2
IPE AAA 180	13.9	176	91	3.9	6	2	17.35	164.0	160.0
IPE AA 180	14.7	176.4	91	4.3	6.2	2	18.37	164.0	160.0
IPE A 180	15.1	177	91	4.3	6.5	2	18.92	164.0	160.0
IPE 180	18.6	180	91	5.3	8	2	23.29	164.0	160.0
IPE O 180	21.1	182	92	6	9	2	26.43	164.0	160.0
IPE AAAAA 200	14.3	193	100	4.1	5.2	2	17.92	182.6	178.6
IPE AAA 200	16.4	196	100	4.1	6.5	2	20.54	183.0	179.0
IPE AA 200	17.3	196.4	100	4.5	6.7	2	21.67	183.0	179.0
IPE A 200	17.8	197	100	4.5	7	2	22.27	183.0	179.0
IPE 200	21.8	200	100	5.6	8.5	2	27.28	183.0	179.0
IPE O 200	24.6	202	102	6.2	9.5	2	30.76	183.0	179.0
IPE AA 220	20.6	216.4	110	4.7	7.4	2	25.79	201.6	197.6
IPE A 220	21.6	217	110	5	7.7	2	27.05	201.6	197.6
IPE 220	25.7	220	110	5.9	9.2	2	32.17	201.6	197.6
IPE O 220	29.0	222	112	6.6	10.2	2	36.19	201.6	197.6
IPE AA 240	23.9	236.4	120	4.8	8	2	29.81	220.4	216.4
IPE A 240	25.1	237	120	5.2	8.3	2	31.42	220.4	216.4
IPE 240	29.8	240	120	6.2	9.8	2	37.22	220.4	216.4
IPE O 240	33.5	242	122	7	10.8	2	41.81	220.4	216.4
IPE A 270	29.8	267	135	5.5	8.7	2	37.25	249.6	245.6
IPE 270	35.2	270	135	6.6	10.2	2	44.05	249.6	245.6
IPE O 270	41.6	274	136	7.5	12.2	2	51.94	249.6	245.6
IPE A 300	35.7	297	150	6.1	9.2	2	44.63	278.6	274.6
IPE 300	41.5	300	150	7.1	10.7	2	51.91	278.6	274.6

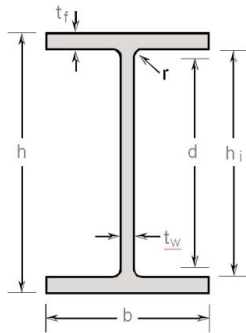
## Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



## Structural properties

Designation	Strong axis y-y					Weak axis z-z						
	$I_y$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y$ mmx10	$A_{vz}$ mm <sup>2</sup> x10 <sup>2</sup>	$I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_z$ mmx10	$S_s$ mm	$I_t$ mm <sup>4</sup> x10 <sup>4</sup>	$I_w$ mm <sup>6</sup> x10 <sup>9</sup>
IPE AAAA 180	783.87	90.10	101.97	7.14	6.83	61.62	13.54	20.92	2.00	16.04	1.07	4.40
IPE AAA 180	934.94	106.24	119.32	7.34	6.90	75.44	16.58	25.47	2.09	18.24	1.66	5.44
IPE AA 180	977.89	110.87	125.22	7.30	7.60	77.98	17.14	26.44	2.06	19.04	1.91	5.64
IPE A 180	1020.51	115.31	130.04	7.34	7.63	81.75	17.97	27.68	2.08	19.64	2.13	5.93
IPE 180	1274.74	141.64	161.13	7.40	9.47	100.68	22.13	34.29	2.08	23.64	3.96	7.43
IPE O 180	1463.01	160.77	183.87	7.44	10.77	117.10	25.46	39.58	2.10	26.34	5.69	8.74
IPE AAAA 200	1128.08	116.90	132.14	7.93	7.94	86.77	17.35	26.78	2.20	16.84	1.39	7.64
IPE AAA 200	1379.78	140.79	157.81	8.20	8.06	108.44	21.69	33.28	2.30	19.44	2.27	9.73
IPE AA 200	1438.70	146.51	165.09	8.15	8.84	111.81	22.36	34.44	2.27	20.24	2.59	10.05
IPE A 200	1496.74	151.95	170.99	8.20	8.86	116.81	23.36	35.94	2.29	20.84	2.87	10.53
IPE 200	1848.44	184.84	209.97	8.23	11.10	141.94	28.39	43.95	2.28	24.94	5.20	12.99
IPE O 200	2116.32	209.54	238.75	8.29	12.35	168.39	33.02	51.19	2.34	27.54	7.31	15.57
IPE AA 220	2102.93	194.36	218.23	9.03	10.15	164.33	29.88	45.89	2.52	21.84	3.69	17.93
IPE A 220	2200.90	202.85	228.42	9.02	10.81	171.02	31.10	47.86	2.51	22.74	4.22	18.71
IPE 220	2656.23	241.48	273.62	9.09	12.84	204.44	37.17	57.43	2.52	26.64	7.11	22.67
IPE O 220	3018.44	271.93	309.37	9.13	14.42	239.33	42.74	66.18	2.57	29.34	9.87	26.79
IPE AA 240	2937.40	248.51	277.93	9.93	11.32	230.61	38.43	58.88	2.78	23.14	4.91	30.05
IPE A 240	3073.94	259.40	291.31	9.89	12.26	239.30	39.88	61.26	2.76	24.14	5.62	31.26
IPE 240	3675.10	306.26	346.39	9.94	14.70	282.68	47.11	72.69	2.76	28.14	9.28	37.39
IPE O 240	4152.74	343.20	390.01	9.97	16.65	327.49	53.69	83.09	2.80	30.94	12.77	43.68
IPE A 270	4637.57	347.38	389.46	11.16	14.59	357.10	52.90	81.18	3.10	25.24	7.33	59.51
IPE 270	5510.06	408.15	460.97	11.18	17.59	418.87	62.05	95.68	3.08	29.34	11.96	70.58
IPE O 270	6667.32	486.67	551.62	11.33	20.16	512.36	75.35	116.35	3.14	34.24	19.86	87.64
IPE A 300	6823.00	459.46	516.01	12.36	17.96	518.03	69.07	106.10	3.41	26.84	9.93	107.16
IPE 300	8005.61	533.71	602.58	12.42	21.00	602.71	80.36	123.90	3.41	30.84	15.61	125.93



## European I beams

Dimensions: IPE in accordance with DIN 1025

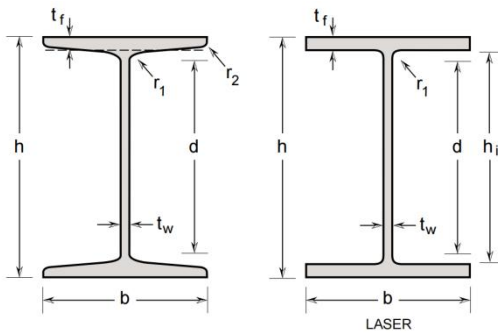
IPE AAAA - A, O according to Montanstahl mill standard

Tolerances: EN 10034: 1993

### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r* mm	A mm <sup>2</sup> x10 <sup>2</sup>	h <sub>i</sub> mm	d mm
IPE O 300	48.7	304	152	8	12.7	2	60.93	278.6	274.6
IPE A 330	41.6	327	160	6.5	10	2	51.99	307.0	303.0
IPE 330	47.9	330	160	7.5	11.5	2	59.86	307.0	303.0
IPE O 330	55.9	334	162	8.5	13.5	2	69.87	307.0	303.0
IPE A 360	49.0	357.6	170	6.6	11.5	2	61.22	334.6	330.6
IPE 360	56.0	360	170	8	12.7	2	69.98	334.6	330.6
IPE O 360	65.1	364	172	9.2	14.7	2	81.39	334.6	330.6
IPE A 400	55.5	397	180	7	12	2	69.34	373.0	369.0
IPE 400	64.6	400	180	8.6	13.5	2	80.71	373.0	369.0
IPE O 400	74.1	404	182	9.7	15.5	2	92.64	373.0	369.0
IPE A 450	65.4	447	190	7.6	13.1	2	81.80	420.8	416.8
IPE 450	76.1	450	190	9.4	14.6	2	95.07	420.8	416.8
IPE O 450	91.1	456	192	11	17.6	2	113.91	420.8	416.8
IPE A 500	77.9	497	200	8.4	14.5	2	97.35	468.0	464.0
IPE 500	89.4	500	200	10.2	16	2	111.77	468.0	464.0
IPE O 500	106.4	506	202	12	19	2	132.95	468.0	464.0
IPE A 550	89.9	547	210	9	15.7	2	112.38	515.6	511.6
IPE 550	103.6	550	210	11.1	17.2	2	129.51	515.6	511.6
IPE O 550	120.9	556	212	12.7	20.2	2	151.16	515.6	511.6
IPE A 600	105.7	597	220	9.8	17.5	2	132.11	562.0	558.0
IPE 600	120.9	600	220	12	19	2	151.07	562.0	558.0
IPE O 600	153.5	610	224	15	24	2	191.85	562.0	558.0



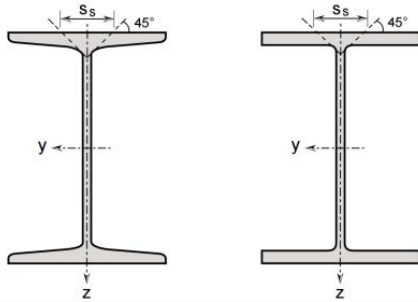


## European standard beams

Dimensions: in accordance with DIN 1025  
Tolerances: EN 10024: 1995

### General properties

Designation		Dimensions							Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r <sub>1</sub> mm	r <sub>2</sub> mm	A mm <sup>2</sup> x 10 <sup>2</sup>	h <sub>i</sub> mm	d mm
IPN 80	6.1	80	42	3.9	5.9	3.9	2.3	7.57	-	59
IPN 80*	6.1	80	42	3.9	5.9	2	< 1	7.65	68.2	64.2
IPN 100	8.48	100	50	4.5	6.8	4.5	2.7	10.6	-	75.7
IPN 100*	8.6	100	50	4.5	6.8	2	< 1	10.72	86.4	82.4
IPN 120	11.36	120	58	5.1	7.7	5.1	3.1	14.2	-	92.4
IPN 120*	11.4	120	58	5.1	7.7	2	< 1	14.3	104.6	100.6
IPN 140	14.56	140	66	5.7	8.6	5.7	3.4	18.2	-	109.1
IPN 140*	14.7	140	66	5.7	8.6	2	< 1	18.39	122.8	118.8
IPN 160	18.24	160	74	6.3	9.5	6.3	3.8	22.8	-	125.8
IPN 160*	18.4	160	74	6.3	9.5	2	< 1	22.98	141	137
IPN 180	22.32	180	82	6.9	10.4	6.9	4.1	27.9	-	142.5
IPN 180*	22.5	180	82	6.9	10.4	2	< 1	28.08	159.2	155.2
IPN 200	26.72	200	90	7.5	11.3	7.5	4.5	33.4	-	159.1
IPN 200*	26.9	200	90	7.5	11.3	2	< 1	33.68	177.4	173.4
IPN 220+	31.8	220	98	8.1	12.2	2	< 1	39.79	195.6	191.6
IPN 240+	37.1	240	106	8.7	13.1	2	< 1	46.41	213.8	209.8
IPN 260+	43	260	113	9.4	14.1	2	< 1	53.69	231.8	227.8
IPN 280+	49.1	280	119	10.1	15.2	2	< 1	61.42	249.6	245.6
IPN 300+	55.5	300	125	10.8	16.2	2	< 1	69.44	267.6	263.6
IPN 320+	62.5	320	131	11.5	17.3	2	< 1	78.18	285.4	281.4
IPN 340+	69.8	340	137	12.2	18.3	2	< 1	87.19	303.4	299.4
IPN 360+	78	360	143	13	19.5	2	< 1	97.53	321	317

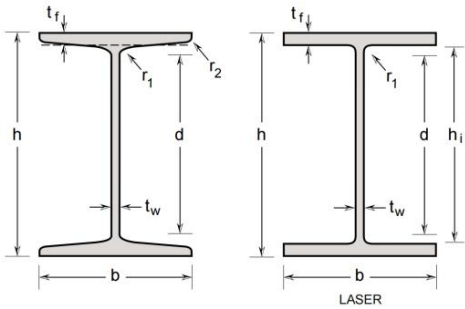


## European standard beams

Dimensions: in accordance with DIN 1025  
Tolerances: EN 10024: 1995

### Structural properties

Designation	Strong axis y-y					Weak axis z-z				Ss	It	Iw
	Iy mm <sup>4</sup> x10 <sup>4</sup>	Wey mm <sup>3</sup> x10 <sup>3</sup>	Wply mm <sup>3</sup> x10 <sup>3</sup>	iy mmx10	Avz mm <sup>2</sup> x10	Iz mm <sup>4</sup> x10 <sup>4</sup>	Wel.z mm <sup>3</sup> x10 <sup>3</sup>	Wpl.z mm <sup>3</sup> x10 <sup>3</sup>	iz mmx10			
IPN 80	77.8	19.5	22.8	3.2	3.41	6.29	3	5	0.91	21.6	0.87	0.09
IPN 80*	78.87	19.72	23.01	3.21	3.16	7.32	3.49	5.47	0.98	18.04	0.73	0.1
IPN 100	171	34.2	39.8	4.01	4.85	12.2	4.88	8.1	1.07	25	1.60	0.27
IPN 100*	172.74	34.55	40.23	4.01	4.5	14.23	5.69	8.95	1.15	20.44	1.34	0.31
IPN 120	328	54.7	63.6	4.81	6.63	21.5	7.41	12.4	1.23	28.4	2.71	0.69
IPN 120*	331.61	55.27	64.28	4.82	6.07	25.16	8.68	13.64	1.33	22.84	2.26	0.79
IPN 140	573	81.9	95.4	5.61	8.65	35.2	10.7	17.9	1.4	31.8	4.32	1.54
IPN 140*	579.94	82.85	96.28	5.62	7.87	41.4	12.55	19.74	1.5	25.24	3.59	1.78
IPN 160	935	117	136	6.4	10.83	54.7	14.8	24.9	1.55	35.2	6.57	3.14
IPN 160*	946.07	118.26	137.35	6.42	9.9	64.46	17.42	27.42	1.67	27.64	5.44	3.63
IPN 180	1450	161	187	7.2	13.35	81.3	19.8	33.2	1.71	38.6	9.58	5.92
IPN 180*	1462.2	162.47	188.63	7.22	12.15	96.01	23.42	36.87	1.85	30.04	7.93	6.87
IPN 200	2140	214	250	8	16.03	117	26	43.5	1.87	42	13.5	10.5
IPN 200*	2164.42	216.44	251.22	8.02	14.64	137.92	30.65	48.27	2.02	32.44	11.18	12.22
IPN 220*	3092.71	281.16	326.26	8.82	17.35	192.25	39.23	61.81	2.2	34.84	15.33	20.66
IPN 240*	4290.91	357.58	414.86	9.62	20.3	261.22	49.29	77.66	2.37	37.24	20.56	33.47
IPN 260*	5802.58	446.35	518.46	10.4	23.71	340.69	60.3	95.16	2.52	39.94	27.48	51.26
IPN 280*	7662.64	547.33	636.71	11.17	27.39	429.06	72.11	114.01	2.64	42.84	36.3	74.84
IPN 300*	9894.54	659.64	768.5	11.94	31.33	530.16	84.83	134.39	2.76	45.54	46.46	106.18
IPN 320*	12628.81	789.3	920.68	12.71	35.54	651.83	99.52	157.9	2.89	48.44	59.34	148.48
IPN 340*	15834.34	931.43	1087.81	13.48	40.01	788.87	115.16	183.05	3.01	51.14	73.86	202.91
IPN 360*	19774.69	1098.59	1284.92	14.24	45.08	956.26	133.74	212.96	3.13	54.34	93.50	275.46

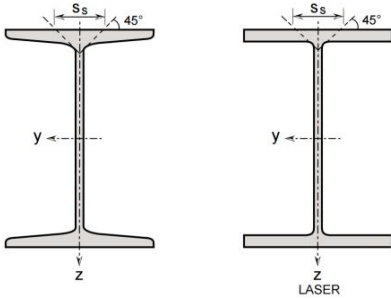


## European standard beams

Dimensions: in accordance with DIN 1025  
Tolerances: EN 10024: 1995

### General properties

Designation		Dimensions							Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r <sub>1</sub> mm	r <sub>2</sub> mm	A mm <sup>2</sup> × 10 <sup>2</sup>	h <sub>i</sub> mm	d mm
IPN 380 <sup>+</sup>	86.1	380	149	13.7	20.5	2	< 1	107.57	339	335
IPN 400 <sup>+</sup>	94.7	400	155	14.4	21.6	2	< 1	118.37	356.8	352.8
IPN 450 <sup>+</sup>	118.1	450	170	16.2	24.3	2	< 1	147.68	401.4	397.4
IPN 500 <sup>+</sup>	144.2	500	185	18	27	2	< 1	180.21	446	442.0
IPN 550 <sup>+</sup>	170.5	550	200	19	30	2	< 1	213.13	490	486
IPN 600 <sup>+</sup>	204	600	215	21.6	32.4	2	< 1	254.96	535.2	531.2

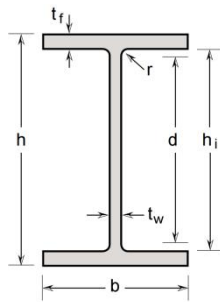


## Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

## Structural properties

Designation	Strong axis y-y					Weak axis z-z				Ss mm	It mm <sup>4</sup> x10 <sup>4</sup>	Iw mm <sup>6</sup> x10 <sup>9</sup>
	Iy mm <sup>4</sup> x10 <sup>4</sup>	Wel.y mm <sup>3</sup> x10 <sup>3</sup>	Wpl.y mm <sup>3</sup> x10 <sup>3</sup>	iy mm x10	Avz mm <sup>2</sup> x10	Iz mm <sup>4</sup> x10 <sup>4</sup>	Wel.z mm <sup>3</sup> x10 <sup>3</sup>	Wpl.z mm <sup>3</sup> x10 <sup>3</sup>	iz mm x10			
IPN 380 <sup>+</sup>	24217.16	1274.59	1492.28	15	50.11	1137.5	152.68	243.49	3.25	57.04	113.74	365.17
IPN 400 <sup>+</sup>	29457.08	1472.85	1725.8	15.77	55.39	1349.49	174.13	277.99	3.38	59.94	138.42	479.89
IPN 450 <sup>+</sup>	46216.56	2054.07	2411.8	17.69	69.97	2004.01	235.77	377.5	3.68	67.14	217.25	901.47
IPN 500 <sup>+</sup>	69261.49	2770.46	3258.52	19.6	86.25	2870.94	310.37	498.2	3.99	74.34	325.67	1593.64
IPN 550 <sup>+</sup>	99858.29	3631.21	4261.31	21.65	100.03	4028.04	402.8	644.26	4.35	81.34	463.35	2704
IPN 600 <sup>+</sup>	139952.5	4665.08	5501.59	23.43	123.93	5411.71	503.42	811.31	4.61	88.74	658.38	4322.49

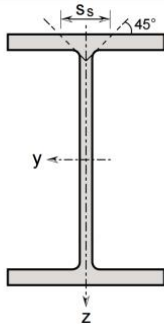


## British universal beams

Dimensions: In accordance with BS 4-1: 2005  
 Finish according to Montanstahl mill standard  
 Tolerances: EN 10034: 1993

### General properties

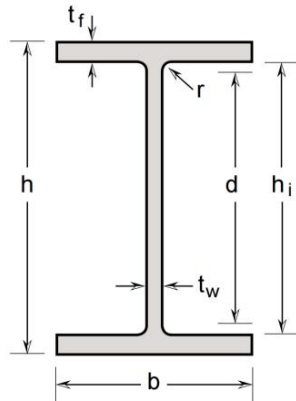
Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r * mm	A mm <sup>2</sup> x10 <sup>2</sup>	h <sub>i</sub> mm	d mm
UB 127 x 76 x 13	13.0	127.0	76.0	4.0	7.6	7.6	16.52	111.8	96.6
UB 152 x 86 x 16	16.0	152.4	88.7	4.5	7.7	7.6	20.32	137	121.8
UB 178 x 102 x 19	19.0	177.8	101.2	4.8	7.9	7.6	24.26	162	146.8
UB 203 x 102 x 23	23.1	203.2	101.8	5.4	9.3	7.6	29.4	184.6	169.4
UB 203 x 133 x 25	25.1	203.2	133.2	5.7	7.8	7.6	31.97	187.6	172.4
UB 203 x 133 x 30	30.0	206.8	133.9	6.4	9.6	7.6	38.21	187.6	172.4
UB 254 x 102 x 22	22.0	254.0	101.6	5.7	6.8	7.6	28.02	240.4	225.2
UB 254 x 102 x 25	25.2	257.2	101.9	6.0	8.4	7.6	32.04	240.4	225.2
UB 254 x 102 x 28	28.3	260.4	102.2	6.3	10.0	7.6	36.08	240.4	225.2
UB 254 x 146 x 31	31.1	251.4	146.1	6.0	8.6	7.6	39.68	234.2	219
UB 254 x 146 x 37	37.0	256.0	146.4	6.3	10.9	7.6	47.17	234.2	219
UB 254 x 146 x 43	43.0	259.6	147.3	7.2	12.7	7.6	54.77	234.2	219
UB 305 x 102 x 25	24.8	305.1	101.6	5.8	7.0	7.6	31.60	291.1	275.9
UB 305 x 102 x 28	28.2	308.7	101.8	6.0	8.8	7.6	35.88	291.1	275.9
UB 305 x 102 x 33	32.8	312.7	102.4	6.6	10.8	7.6	41.83	291.1	275.9
UB 305 x 127 x 37	37.0	304.4	123.4	7.1	10.7	8.9	47.18	283	265.2
UB 305 x 127 x 42	41.9	307.2	124.3	8.0	12.1	8.9	53.40	283	265.2
UB 305 x 127 x 48	48.1	311.0	125.3	9.0	14.0	8.9	61.23	283	265.2
UB 305 x 165 x 40	40.3	303.4	165.0	6.0	10.2	8.9	51.32	283	265.2
UB 305 x 165 x 46	46.1	306.6	165.7	6.7	11.8	8.9	58.75	283	265.2
UB 305 x 165 x 54	54.0	310.4	166.9	7.9	13.7	8.9	68.77	283	265.2
UB 356 x 127 x 33	33.1	349.0	125.4	6.0	8.5	10.2	42.13	332	311.6
UB 356 x 127 x 39	39.1	353.4	126.0	6.6	10.7	10.2	49.77	332	311.6


**Stainless steel**

 Grade according to EN 10088-3: 1D  
 Surface condition: blasted and pickled

**Structural properties**

Designation	Strong axis y-y					Weak axis z-z				S <sub>s</sub>	I <sub>t</sub>	I <sub>w</sub>
	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	A <sub>wz</sub> mm <sup>2</sup> x10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10			
UB 127 x 76 x 13	473.4	74.56	84.15	5.35	6.43	55.74	14.67	22.58	1.84	28.10	2.80	1.98
UB 152 x 86 x 16	834.3	109.5	123.3	6.41	8.18	89.75	20.24	31.18	2.10	28.80	3.55	4.69
UB 178 x 102 x 19	1356	152.5	171.3	7.48	9.85	136.7	27.02	41.59	2.37	29.50	4.42	9.85
UB 203 x 102 x 23	2105	207.2	234.1	8.46	12.38	163.9	32.19	49.75	2.36	32.90	7.02	15.37
UB 203 x 133 x 25	2340	230.3	257.7	8.56	12.82	307.6	46.19	70.94	3.10	30.20	6.10	29.33
UB 203 x 133 x 30	2896	280.0	314.4	8.71	14.58	384.7	57.45	88.22	3.17	34.50	10.43	37.34
UB 254 x 102 x 22	2841	223.7	259.0	10.07	15.62	119.3	23.49	37.27	2.06	28.20	4.35	18.16
UB 254 x 102 x 25	3415	265.5	305.5	10.32	16.70	148.7	29.18	46.01	2.15	31.70	6.56	22.92
UB 254 x 102 x 28	4005	307.6	352.8	10.54	17.79	178.5	34.94	54.85	2.22	35.20	9.66	27.89
UB 254 x 146 x 31	4413	651.1	393.1	10.55	16.37	447.5	61.26	94.13	3.36	32.10	8.68	65.88
UB 254 x 146 x 37	5537	432.6	483.2	10.83	17.59	570.6	77.96	119.4	3.48	37.00	15.37	85.61
UB 254 x 146 x 43	6544	504.1	566.3	10.93	20.20	677.4	91.97	141.1	3.52	14.50	23.97	103.1
UB 305 x 102 x 25	4455	292.1	342.0	11.87	18.85	122.9	24.20	38.81	1.97	28.70	4.98	27.18
UB 305 x 102 x 28	5366	347.6	402.9	12.23	19.83	155.4	30.53	48.45	2.08	32.50	7.51	34.79
UB 305 x 102 x 33	6501	415.8	480.8	12.47	22.06	194.1	37.91	60.04	2.15	37.10	12.29	44.04
UB 305 x 127 x 37	7171	471.1	539.4	12.33	23.44	336.2	54.49	85.41	2.67	38.93	14.96	72.26
UB 305 x 127 x 42	8196	533.6	613.5	12.39	26.44	388.8	62.55	98.41	2.70	42.63	21.42	84.32
UB 305 x 127 x 48	9575	615.7	710.7	12.50	29.90	461.0	73.59	116.1	2.74	47.43	32.18	101.2
UB 305 x 165 x 40	8503	560.5	623.1	12.87	20.09	764.4	92.65	141.7	3.86	36.83	14.74	164.1
UB 305 x 165 x 46	9899	645.7	720.0	12.98	22.53	895.7	108.1	165.5	3.90	40.73	22.20	194.4
UB 305 x 165 x 54	11700	753.6	846.1	13.04	26.56	1063	127.4	195.6	3.93	45.73	34.90	233.6
UB 356 x 127 x 33	8249	472.7	542.9	13.99	23.06	280.2	44.69	70.29	2.58	34.95	8.97	80.97
UB 356 x 127 x 39	10170	575.6	658.5	14.30	25.69	357.8	56.80	89.05	2.68	39.95	15.15	104.7

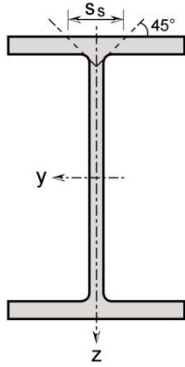


## British universal beams

Dimensions: In accordance with BS 4-1: 2005  
 Finish according to Montanstahl mill standard  
 Tolerances: EN 10034: 1993

### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r * mm	A mm <sup>2</sup> x10 <sup>2</sup>	h <sub>i</sub> mm	d mm
UB 356 x 171 x 45	45.0	351.4	171.1	7.0	9.7	10.2	57.33	332	311.6
UB 356 x 171 x 51	51.0	355.0	171.5	7.4	11.5	10.2	64.91	332	311.6
UB 356 x 171 x 57	57.0	358.0	172.2	8.1	13.0	10.2	72.56	332	311.6
UB 356 x 171 x 67	67.1	363.4	173.2	9.1	15.7	10.2	85.49	332	311.6
UB 406 x 140 x 39	39.0	398.0	141.8	6.4	8.6	10.2	49.65	380.8	360.4
UB 406 x 140 x 46	46.0	403.2	142.2	6.8	11.2	10.2	58.64	380.8	360.4
UB 406 x 178 x 54	54.1	402.6	177.7	7.7	10.9	10.2	68.95	380.8	360.4
UB 406 x 178 x 60	60.1	406.4	177.9	7.9	12.8	10.2	76.52	380.8	360.4
UB406 x 178 x 67	67.1	409.4	178.8	8.8	14.3	10.2	85.54	380.8	360.4
UB 406 x 178 x 74	74.2	412.8	179.5	9.5	16.0	10.2	94.51	380.80	360.4
UB 406 x 178 x 85	85.0	417.0	181.0	10.9	18.2	10.2	108.2	380.8	360.4
UB 457 x 152 x 52	52.3	449.8	152.4	7.6	10.9	10.2	66.64	428	407.6
UB 457 x 152 x 60	59.8	454.6	152.9	8.1	13.3	10.2	76.23	428	407.6
UB 457 x 152 x 67	67.2	458.0	153.8	9.0	15.0	10.2	85.55	428	407.6
UB 457 x 152 x 74	74.2	462.0	154.4	9.6	17.0	10.2	94.48	428	407.6
UB 457 x 152 x 82	82.1	465.8	155.3	10.5	18.9	10.2	104.5	428	407.6
UB 457 x 191 x 67	67.1	453.4	189.9	8.5	12.7	10.2	85.51	428	407.6
UB 457 x 191 x 74	74.3	457.0	190.4	9.0	14.5	10.2	94.63	428	407.6
UB 457 x 191 x 82	82.0	460.0	191.3	9.9	16.0	10.2	104.5	428	407.6
UB 457 x 191 x 89	89.3	463.4	191.9	10.5	17.7	10.2	113.8	428	407.6
UB 457 x 191 x 98	98.3	467.3	192.8	11.4	19.6	10.2	125.3	428	407.6
UB 457 x 191 x 106	106	469.0	194.0	12.6	20.6	10.2	134.7	428	407.6
UB 533 x 165 x 66	66.0	525.0	165.0	8.9	11.4	13	83.77	502	476
UB 533 x 165 x 74	74.0	529.0	166.0	9.7	13.6	13	95.28	502	476
UB 533 x 165 x 85	85.0	535.0	166.0	10.3	16.5	13	107.9	502	476



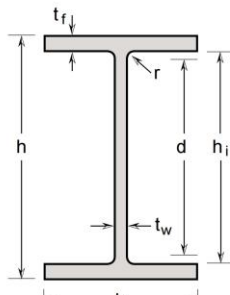
### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

### Structural properties

Designation	Strong axis y-y					Weak axis z-z					S <sub>s</sub>	I <sub>t</sub>	I <sub>w</sub>
	I <sub>y</sub> mm <sup>4</sup> × 10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> × 10 <sup>3</sup>	W <sub>pl,y</sub> mm <sup>3</sup> × 10 <sup>3</sup>	i <sub>y</sub> mm × 10	A <sub>vz</sub> mm <sup>2</sup> × 10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> × 10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> × 10 <sup>3</sup>	W <sub>pl,z</sub> mm <sup>3</sup> × 10 <sup>3</sup>	i <sub>z</sub> mm × 10				
UB 356 x 171 x 45	12070	686.7	774.6	14.51	26.79	811.1	94.81	146.6	3.76	38.35	16.16	236.4	
UB 356 x 171 x 51	14140	796.4	896.0	14.76	28.66	968.3	112.9	174.2	3.86	42.35	24.00	285.2	
UB 356 x 171 x 57	16040	896.0	1010	14.87	31.49	1108	128.7	198.8	3.91	46.05	33.59	329.2	
UB 356 x 171 x 67	19460	1071	1211	15.09	35.74	1362	157.3	243.0	3.99	52.45	55.90	410.9	
UB 406 x 140 x 39	12510	628.6	723.7	15.87	27.57	409.8	57.80	90.85	2.87	35.55	10.99	154.9	
UB 406 x 140 x 46	15690	778.0	887.6	16.35	29.83	538.1	75.68	118.1	3.03	41.15	19.07	206.2	
UB 406 x 178 x 54	18720	930.0	1055	16.48	33.28	1021	114.9	178.3	3.85	41.45	23.50	391.0	
UB 406 x 178 x 60	21600	1063	1199	16.80	34.60	1203	135.3	209.0	3.97	45.45	33.49	465.2	
UB406 x 178 x 67	24330	1189	1346	16.87	38.58	1365	152.7	236.6	3.99	49.35	46.40	531.7	
UB 406 x 178 x 74	27310	1323	1501	17.00	41.85	1545	172.2	267.0	4.04	53.45	63.10	607.1	
UB 406 x 178 x 85	31530	1512	1725	17.06	48.05	1803	199.3	310.1	4.08	59.02	93.02	715.2	
UB 457 x 152 x 52	21370	950.0	1096	17.91	36.47	645.0	84.64	133.3	3.11	41.35	21.71	307.7	
UB 457 x 152 x 60	25500	1122	1287	18.29	39.35	794.6	103.9	163.1	3.23	46.65	34.02	385.8	
UB 457 x 152 x 67	28930	1263	1453	18.39	43.82	912.6	118.7	186.7	3.27	50.95	47.95	446.2	
UB 457 x 152 x 74	32670	1414	1627	18.60	47.08	1047	135.6	213.1	3.33	55.55	66.18	516.3	
UB 457 x 152 x 82	36590	1517	1811	18.71	51.67	1185	152.5	240.4	3.37	60.25	89.65	589.1	
UB 457 x 191 x 67	29380	1296	1471	18.54	40.94	1452	152.9	237.3	4.12	45.85	37.54	703.8	
UB 457 x 191 x 74	33320	1458	1653	18.76	43.68	1671	175.5	272.1	4.20	49.95	52.14	816.6	
UB 457 x 191 x 82	37050	1611	1831	18.83	48.11	1871	195.6	303.9	4.23	53.85	69.72	920.1	
UB 457 x 191 x 89	41020	1770	2014	18.99	51.30	2089	217.8	338.4	4.29	57.85	91.26	1035	
UB 457 x 191 x 98	45730	1957	2232	19.11	55.92	2347	243.5	378.9	4.33	62.55	122.1	1173	
UB 457 x 191 x 106	48790	2081	2385	19.04	61.34	2515	259.2	405.3	4.32	65.49	146.6	1260	
UB 533 x 165 x 66	35100	1337	1563	20.47	50.13	857.3	103.9	166.2	3.20	46.93	33.29	562.9	
UB 533 x 165 x 74	41100	1554	1810	20.77	54.98	1042	125.5	200.3	3.31	52.13	49.20	688.6	
UB 533 x 165 x 85	48580	1816	2105	21.22	59.15	1264	152.2	241.8	3.42	58.53	74.55	845.5	



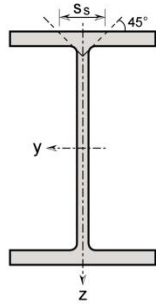


British universal beams

Dimensions: In accordance with BS 4-1: 2005  
 Finish according to Montanstahl mill standard  
 Tolerances: EN 10034: 1993

General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>r</sub> mm	r * mm	A mm <sup>2</sup> x 10 <sup>2</sup>	h <sub>i</sub> mm	d mm
UB 533 x 210 x 82	82.2	528.3	208.8	9.6	13.2	12.7	104.7	501.9	476.5
UB 533 x 210 x 92	92.1	533.1	209.3	10.1	15.6	12.7	117.4	501.9	476.5
UB 533 x 210 x 101	101.0	536.7	210.0	10.8	17.4	12.7	128.7	501.9	476.5
UB 533 x 210 x 109	109.0	539.5	210.8	11.6	18.8	12.7	138.9	501.9	476.5
UB 533 x 210 x 122	122.0	544.5	211.9	12.7	21.3	12.7	155.4	501.9	476.5
UB 533 x 510 x 138	138.0	549.0	214.0	14.7	23.6	12.7	176.2	501.9	476.4
UB 610 x 178 x 82	82.0	599.0	178.0	10.0	12.8	13	104.4	573	547
UB 610 x 178 x 92	92.0	603.0	179.0	10.9	15.0	13	117.6	573	547
UB 610 x 229 x 101	101.2	602.6	227.6	10.5	14.8	12.7	128.9	573	547.6
UB 610 x 229 x 113	113.0	607.6	228.2	11.1	17.3	12.7	143.9	573	547.6
UB 610 x 229 x 125	125.1	612.2	229.0	11.9	19.6	12.7	159.3	573	547.6
UB 610 x 229 x 140	139.9	617.2	230.2	13.1	22.1	12.7	178.2	573	547.6
UB 610 x 229 x 153	153.0	623.0	229.0	14.0	24.9	12.7	195.7	573	547.6
UB 610 x 305 x 149	149.1	612.4	304.8	11.8	19.7	16.5	190.0	573	540
UB 610 x 305 x 179	179.0	620.2	307.1	14.1	23.6	16.5	228.1	573	540
UB 610 x 305 x 238	238.1	635.8	311.4	18.4	31.4	16.5	303.3	573	540
UB 686 x 254 x 125	125.2	677.9	253.0	11.7	16.2	15.2	159.5	645.5	615.1
UB 686 x 254 x 140	140.1	683.5	253.7	12.4	19.0	15.2	178.4	645.5	615.1
UB 686 x 254 x 152	152.4	687.5	254.5	13.2	21.0	15.2	194.1	645.5	615.1
UB 686 x 254 x 170	170.2	692.9	255.8	14.5	23.7	15.2	216.8	645.5	615.1
UB 686 x 254 x 192	192.0	702.0	254.0	15.5	27.9	15.2	243.8	645.5	615.1
UB 762 x 267 x 134	133.9	750.0	264.4	12.0	15.5	16.5	170.6	719	686
UB 762 x 267 x 147	146.9	754.0	265.2	12.8	17.5	16.5	187.2	719	686
UB 762 x 267 x 173	173.0	762.2	266.7	14.3	21.6	16.5	220.4	719	686
UB 762 x 267 x 197	196.8	769.8	268.0	15.6	25.4	16.5	250.6	719	686
UB 762 x 267 x 220	220.0	779.0	266.0	16.5	30.0	16.5	280.7	719	686



### Stainless steel

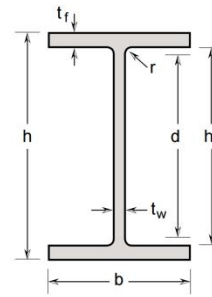
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

### Structural properties

Designation	Strong axis y-y					Weak axis z-z				S <sub>s</sub>	I <sub>t</sub>	I <sub>w</sub>
	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	A <sub>vz</sub> mm <sup>2</sup> x10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10			
UB 533 x 210 x 82	47540	1800	2059	21.31	54.19	2007	192.3	300.4	4.38	50.88	52.54	1328
UB 533 x 210 x 92	55230	2072	2360	21.69	57.61	2389	228.3	355.6	4.51	56.18	76.34	1596
UB 533 x 210 x 101	61520	2292	2612	21.87	61.89	2692	256.4	399.4	4.57	60.48	101.6	1811
UB 533 x 210 x 109	66820	2477	2828	21.94	66.56	2943	279.2	435.8	4.6	64.08	127.3	1989
UB 533 x 210 x 122	76040	2793	3196	22.12	73.24	3388	319.7	499.7	4.67	70.18	179.6	2312
UB 533 x 510 x 138	86160	3139	3617	22.10	84.98	3870	361.7	569.1	4.68	77.16	254.0	2660
UB 610 x 178 x 82	56030	1871	2199	23.17	63.40	1209	135.8	218.3	3.4	50.83	50.58	1034
UB 610 x 178 x 92	64680	2145	2515	23.45	69.44	1441	161.0	258.5	3.50	56.13	72.81	1239
UB 610 x 229x 101	75780	2515	2881	24.24	66.86	2915	256.1	400.2	4.75	54.98	78.16	2512
UB 610 x 229 x 113	87320	2874	3281	24.63	71.30	3434	301.0	469.3	4.88	60.57	112.3	2985
UB 610 x 229 x 125	98610	3221	3676	24.88	76.88	3932	343.4	535.4	4.97	65.98	155.2	3444
UB 610 x 229 x 140	111800	3622	4142	25.05	84.96	4505	391.4	611.4	5.03	72.18	217.8	3978
UB 610 x 229 x 153	125200	4019	4602	25.29	91.66	4998	436.5	682.4	5.05	79.03	297.5	4457
UB 610 x 305 x 149	125900	4111	4594	25.74	78.78	9308	610.7	937.3	7.00	70.53	200.4	8165
UB 610 x 305 x 179	153000	4935	5547	25.90	94.25	11410	743.0	1144	7.07	80.63	341.6	10140
UB 610 x 305 x 238	209500	6589	7486	26.28	123.9	15840	1017	1574	7.23	100.5	790.6	14430
UB 686 x 254 x 125	118000	3481	3994	27.20	84.33	4383	346.5	542.4	5.24	61.91	118.3	4786
UB 686 x 254 x 140	136300	3987	4558	27.64	90.16	5183	408.6	638.2	5.39	68.21	170.3	5708
UB 686 x 254 x 152	150400	4374	5000	27.83	96.35	5784	454.5	710.2	5.46	73.01	221.3	6407
UB 686 x 254 x 170	170300	4916	5631	28.03	106.2	6630	518.4	811.4	5.53	79.71	309.8	7402
UB 686 x 254 x 192	197900	5639	6457	28.49	114.8	7643	601.8	941.0	5.60	88.87	463.2	8657
UB 762 x 267 x 134	150700	4018	4644	29.72	95.59	4788	362.2	569.9	5.30	62.33	122.3	6440
UB 762 x 267 x 147	168500	4470	5156	30.00	102.4	5455	411.4	647.2	5.40	67.13	162.2	7377
UB 762 x 267 x 173	205300	5387	6198	30.52	115.4	6850	513.7	807.5	5.58	76.83	270.3	9364
UB 762 x 267 x 197	240000	6234	7167	30.94	126.8	8175	610.1	958.6	5.71	85.73	407.3	11290
UB 762 x 267 x 220	278200	7143	8198	31.48	136.3	9440	709.9	1113	5.80	96.42	609.0	13200

## British universal beams

Dimensions: In accordance with BS 4-1: 2005  
 Finish according to Montanstahl mill standard  
 Tolerances: EN 10034: 1993

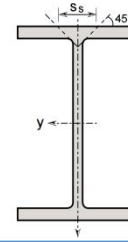


### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>r</sub> mm	r * mm	A mm <sup>2</sup> x 10 <sup>2</sup>	h <sub>i</sub> mm	d mm
UB 838 x 292 x 176	175.9	834.9	291.7	14.0	18.8	17.8	224.0	797.3	761.7
UB 838 x 292 x 194	193.8	840.7	292.4	14.7	21.7	17.8	246.8	797.3	761.7
UB 838 x 292 x 226	226.5	850.9	293.8	16.1	26.8	17.8	288.6	797.3	761.7
UB 838 x 292 x 251	251.0	859.0	292.0	17.0	31.0	17.8	319.3	797.3	761.7
UB 914 x 305 x 201	200.9	903.0	303.3	15.1	20.2	19.1	255.9	862.6	824.4
UB 914 x 305 x 224	224.2	910.4	304.1	15.9	23.9	19.1	285.6	862.6	824.4
UB 914 x 305 x 238	238.0	915.0	305.0	16.5	25.9	19.0	303.5	862.8	824.8
UB 914 x 305 x 253	253.4	918.4	305.5	17.3	27.9	19.1	322.8	862.6	824.4
UB 914 x 305 x 271	271.0	923.0	307.0	18.4	30.0	19.0	346.1	862.8	824.8
UB 914 x 305 x 289	289.1	926.6	307.7	19.5	32.0	19.1	368.3	862.6	824.4
UB 914 x 305 x 313	313.0	932.0	309.0	21.1	34.5	19.0	398.4	862.8	824.8
UB 914 x 305 x 345	345.0	943.0	308.0	22.1	39.9	19.0	439.7	862.8	824.8
UB 914 x 305 x 381	381.0	951.0	310.0	24.4	43.9	19.0	485.9	862.8	824.8
UB 914 x 305 x 425	425.0	961.0	313.0	26.9	49.0	19.0	542.0	862.8	824.8
UB 914 x 305 x 474	474.0	971.0	316.0	30.0	54.1	19.0	603.9	862.8	824.8
UB 914 x 305 x 521	521.0	981.0	319.0	33.0	58.9	19.0	663.7	862.8	824.8
UB 914 x 305 x 576	576.0	993.0	322.0	36.1	65.0	19.0	733.2	862.8	824.8
UB 920 x 420 x 344	344	927	418	19.3	32.0	19.0	437.2	862.8	824.8
UB 920 x 420 x 368	368	931	419	20.3	34.3	19.0	465.6	862.8	824.8
UB 920 x 420 x 390	390	936	420	21.3	36.6	19.0	494.3	862.8	824.8
UB 920 x 420 x 420	420	943	422	22.5	39.9	19.0	534.1	862.8	824.8
UB 920 x 420 x 449	449	948	423	24.0	42.7	19.0	571.4	862.8	824.8
UB 920 x 420 x 491	491	957	422	25.9	47.0	19.0	623.3	962.8	824.8
UB 920 x 420 x 537	537	965	425	28.4	51.1	19.0	682.8	862.8	824.8
UB 920 x 420 x 588	588	975	427	31.0	55.9	19.0	748.1	862.8	824.8
UB 920 x 420 x 656	656	987	431	34.5	62.0	19.0	835.3	862.8	824.8
UB 920 x 420 x 725	725	999	434	38.1	68.1	19.0	922.9	862.8	824.8
UB 920 x 420 x 787	787	1011	437	40.9	73.9	19.0	1002	862.8	824.8

**Stainless steel**

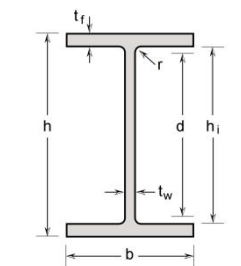
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled


**Structural properties**

Designation	Strong axis y-y					Weak axis z-z				S <sub>s</sub>	I <sub>t</sub>	I <sub>w</sub>
	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	A <sub>vz</sub> mm <sup>2</sup> x10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10			
UB 838 x 292 x 176	246000	5893	6808	33.14	123.7	7799	534.7	841.9	5.9	72.45	226.2	12950
UB 838 x 292 x 194	279200	6641	7640	33.63	130.8	9066	620.1	973.8	6.06	78.95	309.6	15160
UB 838 x 292 x 226	339700	7985	9155	34.31	144.9	11360	773.3	1212	6.27	90.55	516.5	19230
UB 838 x 292 x 251	386500	8999	10300	34.79	154.7	12900	883.6	1383	6.36	100.1	737.6	22050
UB 914 x 305 x 201	325300	7204	8351	35.65	144.2	9423	621.4	982.0	6.07	77.88	297.9	18300
UB 914 x 305 x 224	376400	8269	9535	36.30	153.2	11240	739.0	1163	6.27	86.08	427.2	22010
UB 914 x 305 x 238	406400	8883	10230	36.59	159.6	12290	805.6	1267	6.36	90.56	518.8	24200
UB 914 x 305 x 253	436300	9501	10940	36.76	167.8	13300	870.8	1371	6.42	95.48	630.5	26280
UB 914 x 305 x 271	471600	10220	11780	36.91	178.8	14520	945.8	1491	6.48	100.7	775.0	28840
UB 914 x 305 x 289	504200	10880	12570	37.00	189.8	15600	1014	1601	6.51	105.9	933.6	31090
UB 914 x 305 x 313	548200	11760	13630	37.10	205.6	17040	1103	1748	6.54	112.4	1171	34160
UB 914 x 305 x 345	625600	13270	15350	37.72	217.8	19520	1267	2003	6.66	124.2	1658	39620
UB 914 x 305 x 381	696800	14650	17020	37.87	241.1	21910	1414	2243	6.72	134.5	2213	44840
UB 914 x 305 x 425	788200	16400	19130	38.13	267.0	25190	1610	2562	6.82	147.2	3054	52070
UB 914 x 305 x 474	885700	18240	21390	38.30	298.7	28660	1814	2901	6.89	160.5	4147	59800
UB 914 x 305 x 521	982400	20030	23610	38.47	329.8	32140	2015	3238	6.96	173.1	5405	67740
UB 914 x 305 x 576	1102000	22190	26280	38.76	362.8	36520	2268	3658	7.06	188.4	7227	77870
UB 920 x 420 x 344	645000	13920	15700	38.41	188.0	39010	1867	2880	9.45	105.6	1159	78120
UB 920 x 420 x 368	692200	14870	16790	38.56	198.2	42120	2010	3104	9.51	111.2	1408	84670
UB 920 x 420 x 390	741700	15850	17920	38.74	208.6	45270	2156	3331	9.57	116.8	1691	91550
UB 920 x 420 x 420	813300	17250	19530	39.02	221.5	50070	2373	3667	9.68	124.6	2151	102100
UB 920 x 420 x 449	874700	18450	20950	39.13	236.6	53970	2552	3949	9.72	131.7	2627	110600
UB 920 x 420 x 491	966300	20200	23000	39.37	256.6	59000	2796	4335	9.73	142.2	3441	122200
UB 920 x 420 x 537	1066000	22080	25270	39.51	282.1	65550	3085	4795	9.80	152.9	4447	136900
UB 920 x 420 x 588	1181000	24230	27840	39.74	309.3	72730	3408	5310	9.86	165.1	5859	153200
UB 920 x 420 x 656	1335000	27060	31270	39.98	345.8	83040	3853	6022	9.97	180.8	7950	177600
UB 920 x 420 x 725	1492000	29880	34740	40.21	383.6	93200	4295	6734	10.05	196.6	10570	201900
UB 920 x 420 x 787	1646000	32560	38010	40.53	414.5	103300	4728	7425	10.15	211.0	13430	226800

## British universal beams

Dimensions: In accordance with BS 4-1: 2005 Finish according to Montanstahl mill standard  
Tolerances: EN 10034: 1993

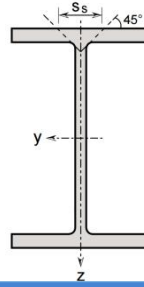


## General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>r</sub> mm	r* mm	A mm <sup>2</sup> x 10 <sup>2</sup>	h <sub>i</sub> mm	d mm
UB 920 x 420 x 970	970	1043	446	50.0	89.9	19.0	1237	862.8	824.8
UB 920 x 420 x 1077	1077	1061	451	55.0	99.1	19.0	1372	863.2	825.2
UB 920 x 420 x 1194	1194	1081	457	60.5	109.0	19.0	1522	863.2	825.2
UB 920 x 420 x 1269	1269	1093	461	64.0	115.1	19.0	1617	863.2	825.2
UB 920 x 420 x 1377	1377	1093	473	76.7	115.1	19.0	1754	863.2	825.2
UB 1000 x 400 x 296	296	982	400	16.5	27.1	30.0	377.6	928.1	868.1
UB 1000 x 400 x 321	321	990	400	16.5	31.0	30.0	408.8	928.1	868.1
UB 1000 x 400 x 371	371	1000	400	19.0	36.1	30.0	472.8	928.1	868.1
UB 1000 x 400 x 412	412	1008	402	21.1	40.0	30.0	525.1	928.1	868.1
UB 1000 x 400 x 443	443	1012	402	23.6	41.9	30.0	563.7	928.1	868.1
UB 1000 x 400 x 483	483	1020	404	25.4	46.0	30.0	615.1	928.1	868.1
UB 1000 x 400 x 539	539	1030	407	28.4	51.1	30.0	687.2	928.1	868.1
UB 1000 x 400 x 554	554	1032	408	29.5	52.0	30.0	705.8	928.1	868.1
UB 1000 x 400 x 591	591	1040	409	31.0	55.9	30.0	752.7	928.1	868.1
UB 1000 x 400 x 642	642	1048	412	34.0	60.0	30.0	817.6	928.1	868.1
UB 1000 x 400 x 748	748	1068	417	39.0	70.0	30.0	953.4	928.1	868.1
UB 1000 x 400 x 883	883	1092	424	45.5	82.0	30.0	1125	928.1	868.1
UB 1000 x 400 x 976	976	1108	428	50.0	89.9	30.0	1243	928.1	868.1

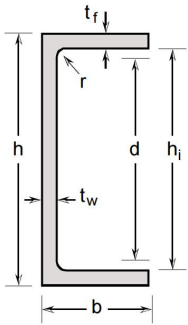
### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



### Structural properties

Designation	Strong axis y-y					Weak axis z-z				S <sub>s</sub>	I <sub>t</sub>	I <sub>w</sub>
	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	A <sub>vz</sub> mm <sup>2</sup> x10 <sup>2</sup>	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>pl,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10			
UB 920 x 420 x 970	2100000	40270	47660	41.21	513.8	133900	6002	9490	10.40	252.1	2432	304000
UB 920 x 420 x 1077	2377000	44790	53390	41.63	570.0	152700	6773	10740	10.55	275.5	33170	350800
UB 920 x 420 x 1194	2694000	49830	59830	42.08	632.7	175000	7660	12180	10.72	300.8	44370	409700
UB 920 x 420 x 1269	2900000	53040	63960	42.35	672.9	189900	8237	13130	10.84	316.5	52500	449700
UB 920 x 420 x 1377	3034000	55500	67680	41.59	797.2	206300	8723	14160	10.85	329.2	61190	485700
UB 1000 x 400 x 296	620300	12630	14260	40.53	181.5	28960	1448	2243	8.76	105.8	762.6	65900
UB 1000 x 400 x 321	696400	14070	15800	41.27	184.6	33120	1656	2555	9.00	113.6	1021	76030
UB 1000 x 400 x 371	813700	16270	18360	41.49	212.5	38580	1929	2984	9.03	126.3	1575	89440
UB 1000 x 400 x 412	910500	18070	20460	41.64	236.0	43400	2160	3349	9.09	136.2	2134	101500
UB 1000 x 400 x 443	966500	19100	21780	41.41	261.8	45500	2264	3529	8.98	142.5	2545	106700
UB 1000 x 400 x 483	1067000	20930	23920	41.66	282.7	50710	2510	3919	9.08	152.5	3311	119900
UB 1000 x 400 x 539	1203000	23350	26820	41.83	316.4	57630	2832	4436	9.16	165.7	4546	137600
UB 1000 x 400 x 554	1232000	23880	27500	41.79	328.0	59100	2897	4547	9.15	168.6	4860	141300
UB 1000 x 400 x 591	1331000	25600	29530	42.05	346.3	64010	3130	4916	9.22	177.9	5927	154300
UB 1000 x 400 x 642	1451000	27680	32100	42.12	379.6	70280	3412	5379	9.27	189.1	7440	170700
UB 1000 x 400 x 748	1732000	32430	37880	42.62	438.9	85110	4082	6459	9.45	214.1	11670	210600
UB 1000 x 400 x 883	2096000	38390	45260	43.16	516.5	105000	4952	7874	9.66	244.6	18750	265700
UB 1000 x 400 x 976	2349000	42400	50300	43.50	570.7	118500	5538	8839	9.77	264.9	24770	304400



## Miscellaneous channels with parallel flanges

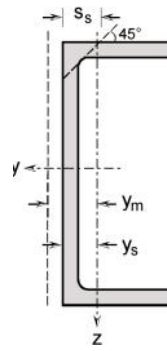
Dimensions: in accordance with DIN 1026-2: 2002-10  
Tolerances: EN 10279: 2000

### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r mm	A mm <sup>2</sup> x 10 <sup>2</sup>	h <sub>i</sub> mm	d mm
UPA 50x25x3	2.3	50	25	3	3	3	2.86	44.00	38.00
UPA 60x30x5	4.5	60	30	5	5	5	5.61	50.00	40.00
UPA 80x40x4	4.9	80	40	4	4	2 +	6.10	72.00	68.00
UPA 80x40x5	6.0	80	40	5	5	6 / 2 *	7.52	70.00	66.00
UPA 80x40x6	7.1	80	40	6	6	6 / 2 *	8.90	68.00	64.00
UPA 100x50x4	6.2	100	50	4	4	6 / 2 *	7.70	92.00	88.00
UPA 100x50x5	7.6	100	50	5	5	6 / 2 *	9.52	90.00	86.00
UPA 100x50x6	9.0	100	50	6	6	6 / 2 *	11.30	88.00	84.00
UPA 120x60x5	9.2	120	60	5	5	5 / 2 *	11.52	110.00	106.00
UPA 120x60x6	11.0	120	60	6	6	6 / 2 *	13.70	108.00	104.00
UPA 130x65x6	11.9	130	65	6	6	6 / 2 *	14.90	118.00	114.00
UPA 130x65x9	17.4	130	65	9	9	9 / 2 *	21.80	112.00	108.00
UPA 140x70x7	14.9	140	70	7	7	7 / 2 *	18.64	126	122.00
UPA 150x75x6	13.8	150	75	6	6	6 / 2 *	17.3	138	134.00
UPA 150x75x9	20.3	150	75	9	9	9 / 2 *	25.4	132	128.00
UPA 160x80x6	14.8	160	80	6	6	6 / 2 *	18.5	148	144.00
UPA 160x80x8	19.5	160	80	8	8	8 / 2 *	24.34	144	140.00
UPA 180x90x8	22	180	90	8	8	2 +	27.54	164	160.00
UPA 200x100x8	24.6	200	100	8	8	2 +	30.74	184	180
UPA 200x100x10	30.4	200	100	10	10	2 +	38.02	180	176

### Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



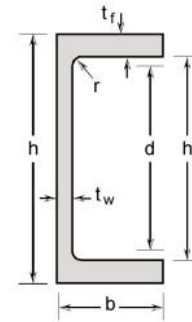
### Structural properties

Designation	Strong axis y-y					Weak axis z-z									
	$I_y$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{ely}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{ply}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y$ mmx10	$A_{vz}$ mm <sup>2</sup> x10 <sup>2</sup>	$I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_z$ mmx10	$S_s$ mm	$I_t$ mm <sup>4</sup> x10 <sup>4</sup>	$I_w$ mm <sup>6</sup> x10 <sup>9</sup>	$y_s$ mmx10	$y_m$ mmx10	
UPA 50x25x3	10.60	4.24	5.14	1.93	1.54	1.65	0.93	1.05	0.76	7.77	0.12	0.00	0.73	1.43	
UPA 60x30x5	28.59	9.53	11.89	2.26	3.11	4.46	2.15	2.64	0.89	12.96	0.72	0.02	0.93	1.66	
UPA 80x40x4	58.91	14.73	17.47	3.11	3.14	9.22	3.23	3.50	1.23	9.18	0.36	0.06	1.15	2.36	
UPA 80x40x5	70.83	17.71	21.24	3.07	3.87	11.13	3.95	4.45	1.22	11.18	0.70	0.08	1.18	2.32	
UPA 80x40x6	81.77	20.44	24.81	3.03	4.58	12.90	4.64	5.42	1.20	13.18	1.20	0.09	1.22	2.28	
UPA 100x50x4	118.53	23.71	27.82	3.92	3.94	18.53	5.14	5.38	1.55	9.18	0.45	0.19	1.40	2.98	
UPA 100x50x5	143.63	28.73	34.03	3.88	4.87	22.51	6.31	6.82	1.54	11.18	0.87	0.24	1.43	2.95	
UPA 100x50x6	167.12	33.42	39.97	3.85	5.78	26.26	7.44	8.30	1.52	13.18	1.49	0.28	1.47	2.91	
UPA 120x60x5	254.47	42.41	49.81	4.70	5.87	39.83	9.23	9.70	1.86	11.18	1.03	0.60	1.68	3.58	
UPA 120x60x6	297.62	49.60	58.72	4.66	6.98	46.67	10.90	11.78	1.85	13.18	1.77	0.70	1.72	3.54	
UPA 130x65x6	382.81	58.89	69.45	5.07	7.58	59.99	12.89	13.75	2.01	13.18	1.92	1.06	1.84	3.86	
UPA 130x65x9	534.94	82.30	99.20	4.95	11.09	84.34	18.55	21.30	1.97	19.18	6.36	1.51	1.95	3.75	
UPA 140x70x7	551.14	78.73	93.17	5.44	9.47	86.45	17.31	18.71	2.15	15.18	3.25	1.77	2.01	4.13	
UPA 150x75x6	599.04	79.87	93.6	5.88	8.78	93.78	17.35	18.13	2.33	13.18	2.21	2.19	2.10	4.48	
UPA 150x75x9	845.13	112.68	134.6	5.77	12.89	132.91	25.1	28	2.29	19.18	7.33	3.15	2.20	4.38	
UPA 160x80x6	732.49	91.56	107.03	6.29	9.38	114.64	19.84	20.54	2.49	13.18	2.35	3.04	2.22	4.79	
UPA 160x80x8	939.96	117.49	139	6.21	12.34	147.48	25.84	27.92	2.46	17.18	5.51	3.94	2.29	4.73	
UPA 180x90x8	1361	151.22	177.91	7.03	13.94	213.33	33.04	35.04	2.78	17.18	6.20	7.19	2.54	5.35	
UPA 200x100x8	1892.15	189.22	221.63	7.85	15.54	296.38	41.13	42.96	3.11	17.18	6.88	12.29	2.79	5.98	
UPA 200x100x10	2294.04	229.4	271.31	7.77	19.22	360.04	50.48	54.52	3.08	21.18	13.34	15.04	2.87	5.91	



## Channels with parallel flanges

Dimensions: in accordance with DIN 1026-2: 2002-10  
Tolerances: EN 10279: 2000

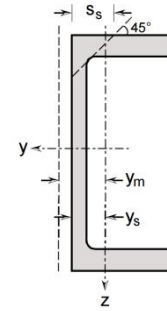


### General properties

Designation		Dimensions						Dimensions for detailing	
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r* mm	A mm <sup>2</sup> x10 <sup>2</sup>	h <sub>i</sub> mm	mm
UPE 80	7.7	80	50	4	7	2	9.66	66.0	62.0
UPE 100	9.7	100	55	4.5	7.5	2	12.09	85.0	81.0
UPE 120	11.9	120	60	5	8	2	14.82	104.0	100.0
UPE 140	14.3	140	65	5	9	2	17.82	122.0	118.0
UPE 160	16.9	160	70	5.5	9.5	2	21.07	141.0	137.0
UPE 180	19.6	180	75	5.5	10.5	2	24.51	159.0	155.0
UPE 200	22.6	200	80	6	11	2	28.30	178.0	174.0
UPE 220	26.5	220	85	6.5	12	2	33.16	196.0	192.0
UPE 240	30.1	240	90	7	12.5	2	37.57	215.0	211.0
UPE 270	35.1	270	95	7.5	13.5	2	43.89	243.0	239.0
UPE 300	44.5	300	100	9.5	15	2	55.67	270.0	266.0
UPE 330	53.1	330	105	11	16	2	66.40	298.0	294.0
UPE 360	61.2	360	110	12	17	2	76.54	326.0	322.0
UPE 400	72.4	400	115	13.5	18	2	90.56	364.0	360.0

## Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

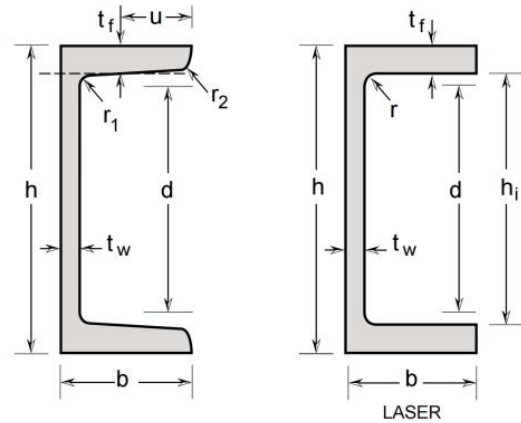


### Structural properties

Designation	Strong axis y-y					Weak axis z-z									
	$I_y$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{ely}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y$ mmx10	$A_{vz}$ mm <sup>2</sup> x10 <sup>2</sup>	$I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{elz}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_z$ mmx10	$S_s$ mm	$I_t$ mm <sup>4</sup> x10 <sup>4</sup>	$I_w$ mm <sup>6</sup> x10 <sup>9</sup>	$y_s$ mmx10	$y_m$ mmx10	
UPE 80	103.31	25.83	30.02	3.27	3.08	24.78	7.91	9.02	1.60	12.18	1.28	0.19	1.87	3.73	
UPE 100	200.19	40.04	46.43	4.07	4.33	37.54	10.57	11.78	1.76	13.18	1.81	0.44	1.95	3.94	
UPE 120	348.89	58.15	67.46	4.85	5.78	54.44	13.72	15.06	1.92	14.18	2.50	0.90	2.03	4.15	
UPE 140	579.04	82.72	95.45	5.70	6.75	77.43	18.09	19.79	2.08	15.18	3.62	1.77	2.22	4.57	
UPE 160	883.44	110.43	127.66	6.47	8.48	105.48	22.49	24.35	2.24	16.18	4.74	3.08	2.31	4.78	
UPE 180	1318.01	146.45	168.51	7.33	9.55	141.98	28.44	30.74	2.41	17.18	6.52	5.30	2.51	5.21	
UPE 200	1856.83	185.68	214.15	8.10	11.58	185.21	34.31	36.81	2.56	18.18	8.22	8.38	2.60	5.43	
UPE 220	2618.40	238.04	274.92	8.89	13.78	244.13	42.38	45.43	2.71	19.68	11.34	13.28	2.74	5.72	
UPE 240	3495.93	291.33	337.20	9.65	16.19	307.84	49.94	53.27	2.86	20.68	13.91	19.65	2.84	5.94	
UPE 270	5122.15	379.42	440.09	10.80	19.52	397.74	60.56	64.35	3.01	22.18	18.60	31.73	2.93	6.16	
UPE 300	7658.85	510.59	601.10	11.73	27.39	535.09	75.51	81.11	3.10	25.68	29.93	50.77	2.91	6.04	
UPE 330	10718.85	649.63	772.24	12.71	34.88	678.56	89.62	97.23	3.20	28.18	41.85	76.09	2.93	6.01	
UPE 360	14478.32	804.35	960.80	13.75	41.52	840.92	105.04	114.61	3.31	30.18	54.87	110.92	2.99	6.12	
UPE 400	20545.68	1027.28	1238.54	15.06	51.95	1042.47	122.57	135.63	3.39	32.68	75.14	166.45	3.00	6.06	

## European standard channels

Dimensions: in accordance with DIN 1026-1: 2009  
Tolerances: EN 10279: 2000

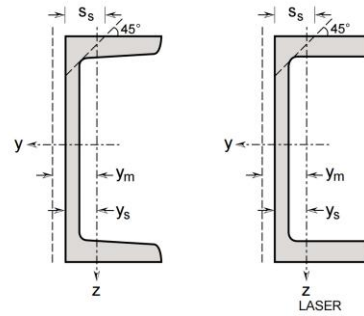


## General properties

Designation		Dimensions						Dimensions for detailing			
	G kg/m	h mm	b mm	tw mm	tr mm	r1 mm	r2 mm	A mm <sup>2</sup> x 10 <sup>2</sup>	d mm	hi mm	u ± 8%
UPN 20 x 10 x 3	0.90	20	10	3	3.5	3.5	2.5	1.14	6.00	-	5.0
UPN 30 x 15 x 4	1.80	30	15	4	4.5	4.5	2.5	2.28	12.10	-	7.5
UPN 30 x 33 x 5	4.45	30	33	5	7	7	3	5.63	2.00	-	16.5
UPN 40 x 20 x 3	1.87	40	20	3	3.3	3.3	3	2.37	26.80	-	10.0
UPN 40 x 20 x 4	2.47	40	20	4	4.5	4.5	3	3.13	22.00	-	10.0
UPN 40 x 35 x 5	5.06	40	35	5	7	7	3	6.41	12.00	-	17.5
UPN 50 x 25 x 5	3.94	50	25	5	6	5	3.5	4.92	25.70	-	12.5
UPN 50	5.70	50	38	5	7	7	3.5	7.12	21.00	-	19.0
UPN 60 x 30 x 6	5.17	60	30	6	6	6	3	6.46	35.50	-	15.0
UPN 65	7.22	65	42	5.5	7.5	7.5	4	9.03	34.00	-	21.0
UPN 80	8.80	80	45	6	8	8	4	11.00	47.00	-	2.5
UPN 80*	8.74	80	45	6	8	2	< 1	11.06	60.00	64.00	
UPN 100	10.80	100	50	6	8.5	8.5	4.5	13.50	64.00	-	25.0
UPN 100*	10.66	100	50	6	8.5	2	< 1	13.50	79.00	83.00	
UPN 120	13.60	120	55	7	9	9	4.5	17.00	82.00	-	27.5
UPN 120*	13.48	120	55	7	9	2	< 1	17.06	98.00	102.00	
UPN 140	16.32	140	60	7	10	10	5	20.40	98.00	-	30.0
UPN 140*	16.13	140	60	7	10	2	< 1	20.42	116.00	120.00	
UPN 160	19.20	60	65	7.5	10.5	10.5	5.5	24.00	115.00	-	32.5
UPN 160*	19.03	160	65	7.5	10.5	2	< 1	24.09	135.00	139.00	

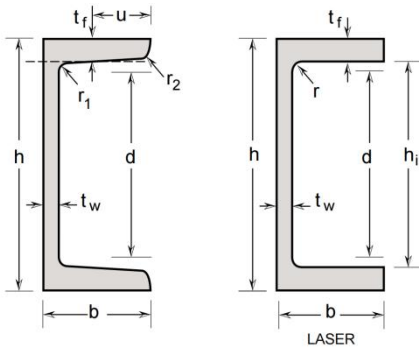
## Stainless steel

Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



## Structural properties

Designation	Strong axis y-y					Weak axis z-z									
	$I_y$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y$ mmx10	$A_{vz}$ mm <sup>2</sup> x10 <sup>2</sup>	$I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_z$ mmx10	$S_s$ mm	$I_t$ mm <sup>4</sup> x10 <sup>4</sup>	$I_w$ mm <sup>6</sup> x10 <sup>9</sup>	$y_s$ mmx10	$y_m$ mmx10	
UPN 30 x 15 x 4	2.62	1.74	2.33	1.07	1.31	0.43	0.45	0.75	0.44	7.16	0.27	0.00	0.54	0.79	
UPN 30 x 33 x 5	6.62	4.41	5.90	1.08	1.85	5.68	3.01	4.56	1.00	11.14	1.29	0.00	1.41	2.38	
UPN 40 x 20 x 3	5.51	2.76	3.41	1.53	1.26	0.86	0.63	1.13	0.60	5.25	0.12	0.00	0.63	1.15	
UPN 40 x 20 x 4	6.89	3.44	4.41	1.48	1.71	1.10	0.83	1.47	0.59	7.16	0.32	0.00	0.67	1.12	
UPN 40 x 35 x 5	14.61	7.31	9.41	1.51	2.35	7.47	3.57	5.55	1.08	11.14	1.38	0.01	1.41	2.48	
UPN 50 x 25 x 5	16.80	6.73	8.52	1.85	2.52	2.49	1.48	2.79	0.71	14.60	0.59	0.01	0.81	1.34	
UPN 50	26.40	10.60	13.10	1.92	2.77	9.12	3.75	6.89	1.13	16.70	1.12	0.03	1.37	2.47	
UPN 60 x 30 x 6	31.60	10.50	13.30	2.21	3.54	4.51	2.16	4.13	0.84	15.80	0.89	0.02	0.91	1.50	
UPN 65	57.50	17.70	21.70	2.52	3.68	14.10	5.07	9.48	1.25	18.00	1.61	0.08	1.42	2.60	
UPN 80	106.00	26.50	32.30	3.10	4.90	19.40	6.36	12.08	1.33	19.40	2.20	0.17	1.45	2.67	
UPN 80*	106.97	26.74	32.17	3.11	4.50	21.80	7.44	13.28	1.40	15.18	2.09	0.20	1.57	2.97	
UPN 100	206.00	41.20	49.00	3.91	6.46	29.30	8.49	16.20	1.47	20.30	2.81	0.41	1.55	2.93	
UPN 100*	207.30	41.46	49.36	3.92	5.68	33.07	9.98	17.93	1.57	15.68	2.71	0.48	1.69	3.27	
UPN 120	364.00	60.70	72.60	4.62	8.80	43.20	11.10	21.26	1.59	22.20	4.15	0.90	1.60	3.03	
UPN 120*	367.96	61.33	73.33	4.64	7.97	49.15	13.08	23.67	1.70	17.18	3.99	1.04	1.74	3.38	
UPN 140	605.00	86.40	103.00	5.45	10.40	62.70	14.80	28.31	1.75	23.90	5.68	1.80	1.75	3.37	
UPN 140*	609.41	87.06	103.40	5.46	9.32	71.05	17.36	31.44	1.87	18.18	5.46	2.08	1.91	3.76	
UPN 160	925.00	116.00	138.00	6.21	12.60	85.30	18.30	35.15	1.89	25.30	7.39	3.26	1.84	3.56	
UPN 160*	932.63	116.58	138.50	6.22	11.44	97.42	21.67	39.21	2.01	19.18	7.09	3.76	2.00	3.98	

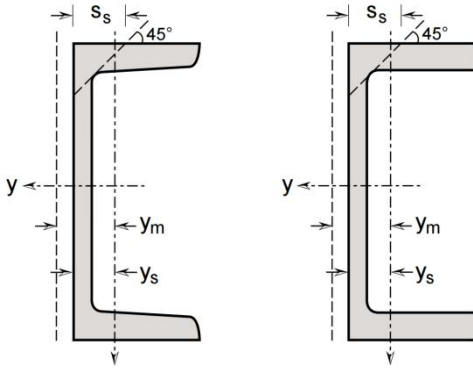


## European standard channels

Dimensions: in accordance with DIN 1026-1: 2009  
Tolerances: EN 10279: 2000

## General properties

Designation		Dimensions						Dimensions for detailing			
	G kg/m	h mm	b mm	t <sub>w</sub> mm	t <sub>f</sub> mm	r <sub>1</sub> mm	r <sub>2</sub> mm	A mm <sup>2</sup> × 10 <sup>2</sup>	d mm	h <sub>i</sub> mm	u ± = 8%
UPN 180	22.40	180	70	8	11	11	5.5	28.00	133.00	-	35.0
UPN 180*	22.17	180	70	8	11	2	< 1	28.06	154.00	158.00	
UPN 200*	25.53	200	75	8.5	11.5	2	< 1	32.31	173.00	177.00	
UPN 220*	29.68	220	80	9	12.5	2	< 1	37.57	191.00	195.00	
UPN 240*	33.53	240	85	9.5	13	2	< 1	42.45	210.00	214.00	
UPN 260*	38.25	260	90	10	14	2	< 1	48.42	228.00	232.00	
UPN 280*	42.28	280	95	10	15	2	< 1	53.52	246.00	250.00	
UPN 300*	46.47	300	100	10	16	2	< 1	58.82	264.00	268.00	
UPN 320*	59.18	320	100	14	17.5	2	< 1	74.92	281.00	285.00	
UPN 350*	60.46	350	100	14	16	2	< 1	76.54	314.00	318.00	
UPN 380*	62.91	380	102	13.5	16	2	< 1	79.64	344.00	348.00	
UPN 400*	71.56	400	110	14	18	2	< 1	90.58	360.00	364.00	



### European standard channels

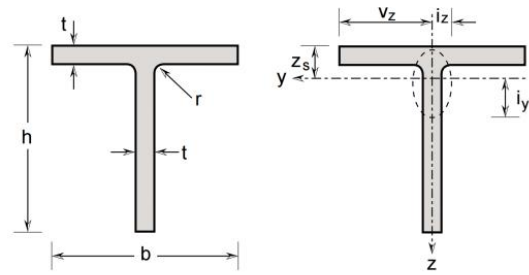
Dimensions: in accordance with DIN 1026-1: 2009  
Tolerances: EN 10279: 2000

### Structural properties

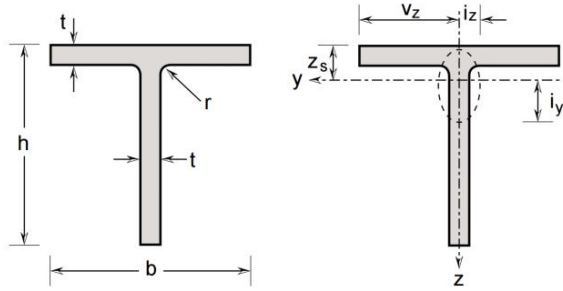
Designation	Strong axis y-y					Weak axis z-z								
	$I_y$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,y}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_y$ mmx10	$A_{vz}$ mm <sup>2</sup> x10 <sup>2</sup>	$I_z$ mm <sup>4</sup> x10 <sup>4</sup>	$W_{el,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$W_{pl,z}$ mm <sup>3</sup> x10 <sup>3</sup>	$i_z$ mmx10	$S_s$ mm	$I_t$ mm <sup>4</sup> x10 <sup>4</sup>	$I_w$ mm <sup>6</sup> x10 <sup>9</sup>	$y_s$ mmx10	$y_m$ mmx10
UPN 180	1350.00	150.00	179.00	6.95	15.10	114.00	22.40	43.05	2.02	26.70	9.55	5.57	1.92	3.75
UPN 180*	1365.17	151.69	180.33	6.98	13.76	130.28	26.60	48.04	2.15	20.18	9.06	6.44	2.10	4.20
UPN 200+	1928.35	192.83	229.46	7.73	16.27	170.62	32.20	58.04	2.30	21.18	11.42	10.50	2.20	4.42
UPN 220+	2713.15	246.65	293.39	8.50	18.94	225.67	39.87	71.87	2.45	22.68	15.32	16.83	2.34	4.71
UPN 240+	3627.90	302.32	359.97	9.24	21.84	285.51	47.12	84.83	2.59	23.68	18.78	25.51	2.44	4.93
UPN 260+	4859.51	373.81	444.92	10.02	24.90	365.32	56.92	102.48	2.75	25.18	24.36	38.35	2.58	5.22
UPN 280+	6313.62	450.97	534.30	10.86	26.82	457.00	67.84	122.32	2.92	26.18	29.60	55.66	2.76	5.63
UPN 300+	8066.44	537.76	634.42	11.71	28.74	564.28	80.02	144.59	3.10	27.18	35.77	78.95	2.95	6.05
UPN 320+	10719.93	670.00	814.15	11.96	42.72	642.94	88.18	159.10	2.93	32.68	62.98	102.40	2.71	5.23
UPN 350+	12687.32	724.99	888.88	12.88	47.10	618.19	82.40	149.34	2.84	31.18	58.09	121.50	2.50	4.83
UPN 380+	15565.03	819.21	1003.37	13.98	49.48	667.24	86.53	156.47	2.89	30.68	57.75	156.40	2.49	4.90
UPN 400+	20089.49	1004.47	1220.72	14.89	53.86	921.06	112.31	202.22	3.19	33.18	77.02	236.10	2.80	5.56

## Equal flange tees Stainless steel

Dimensions and tolerances: in accordance with EN 10055  
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



Designation		Dimensions				Structural properties						
						Position of axes		Axis y-y			Axis z-z	
						y-y						
G	h = b	t	r *	A	Z <sub>s</sub>	I <sub>y</sub>	W <sub>el,y</sub>	i <sub>y</sub>	I <sub>z</sub>	W <sub>el,z</sub>	i <sub>z</sub>	
kg/m	mm	mm	mm	mm <sup>2</sup> x 10 <sup>2</sup>	mm	mm <sup>4</sup> x 10 <sup>4</sup>	mm <sup>3</sup> x 10 <sup>3</sup>	mm x 10	mm <sup>4</sup> x 10 <sup>4</sup>	mm <sup>3</sup> x 10 <sup>3</sup>	mm x 10	
T 20 x 20 x 3	0.90	20	3	2	112.72	6.05	0.40	0.29	0.60	0.20	0.20	0.43
T 20 x 20 x 4	1.17	20	4	2	145.72	6.42	0.50	0.37	0.59	0.28	0.28	0.43
T 25 x 25 x 3	1.14	5	3	2	142.72	7.30	0.82	0.47	0.76	0.40	0.32	0.53
T 25 x 25 x 3.5	1.32	25	3.5	2	164.47	7.49	0.93	0.53	0.75	0.46	0.37	0.53
T 25 x 25 x 4	1.49	25	4	2	185.72	7.68	1.04	0.60	0.75	0.53	0.43	0.54
T 30 x 30 x 3	1.38	30	3	2	172.72	8.55	1.46	0.68	0.92	0.68	0.45	0.63
T 30 x 30 x 4	1.81	30	4	2	225.72	8.93	1.86	0.88	0.91	0.91	0.61	0.64
T 30 x 30 x 5	2.21	30	5	2	276.72	9.29	2.22	1.07	0.90	1.15	0.77	0.65
T 35 x 35 x 3	1.62	35	3	2	202.72	9.80	2.37	0.94	1.08	1.08	0.62	0.73
T 35 x 35 x 4	2.13	35	4	2	265.72	10.18	3.03	1.22	1.07	1.45	0.83	0.74
T 35 x 35 x 5	2.61	35	5	2	326.72	10.55	3.64	1.49	1.06	1.82	1.04	0.75
T 40 x 40 x 3	1.86	40	3	2	232.72	11.05	3.59	1.24	1.24	1.61	0.80	0.83
T 40 x 40 x 4	2.45	40	4	2	305.72	11.43	4.62	1.62	1.23	2.15	1.08	0.84
T 40 x 40 x 5	3.01	40	5	2	376.72	11.80	5.57	1.97	1.22	2.70	1.35	0.85
T 40 x 40 x 6	3.57	40	6	2	445.72	12.17	6.45	2.32	1.20	3.26	1.63	0.86
T 45 x 45 x 3	2.10	45	3	2	262.72	12.30	5.18	1.58	1.40	2.29	1.02	0.93
T 45 x 45 x 4	2.77	45	4	2	345.72	12.69	6.68	2.07	1.39	3.06	1.36	0.94
T 45 x 45 x 5	3.41	45	5	2	426.72	13.06	8.08	2.53	1.38	3.84	1.71	0.95
T 45 x 45 x 6	4.05	45	6	2	505.72	13.42	9.40	2.98	1.36	4.63	2.06	0.96
T 50 x 50 x 3	2.34	50	3	2	292.72	13.55	7.17	1.97	1.56	3.14	1.25	1.04
T 50 x 50 x 4	3.09	50	4	2	385.72	13.94	9.28	2.57	1.55	4.19	1.68	1.04
T 50 x 50 x 5	3.81	50	5	2	476.72	14.31	11.26	3.16	1.54	5.26	2.10	1.05
T 50 x 50 x 6	4.53	50	6	2	565.72	14.68	13.14	3.72	1.52	6.33	2.53	1.06
T 50 x 50 x 7	5.22	50	7	2	652.72	15.04	14.91	4.26	1.51	7.42	2.97	1.07



## Equal flange tees Stainless steel

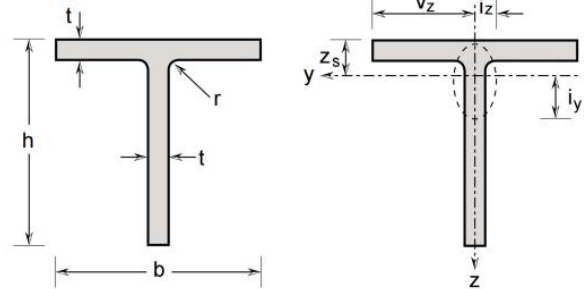
Dimensions and tolerances: in accordance with EN 10055  
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

						Structural properties						
Designation		Dimensions				Position of axes	Axis y-y			Axis z-z		
	G	h = b	t	r *	A	Z <sub>s</sub>	I <sub>y</sub>	W <sub>el,y</sub>	i <sub>y</sub>	I <sub>z</sub>	W <sub>el,z</sub>	i <sub>z</sub>
	kg/m	mm	mm	mm	mm <sup>2</sup> x 10 <sup>2</sup>	mm	mm <sup>4</sup> x 10 <sup>4</sup>	mm <sup>3</sup> x 10 <sup>3</sup>	mm x 10	mm <sup>4</sup> x 10 <sup>4</sup>	mm <sup>3</sup> x 10 <sup>3</sup>	mm x 10
T 50 x 50 x 8	5.90	50	8	2	737.72	15.40	16.57	4.79	1.50	8.51	3.41	1.07
T 60 x 60 x 5	4.61	60	5	2	576.72	16.81	19.93	4.61	1.86	9.06	3.02	1.25
T 60 x 60 x 6	5.49	60	6	2	685.72	17.18	23.35	5.45	1.85	10.90	3.63	1.26
T 60 x 60 x 7	6.34	60	7	2	792.72	17.55	26.60	6.27	1.83	12.75	4.25	1.27
T 60 x 60 x 8	7.18	60	8	2	897.72	17.91	29.70	7.06	1.82	14.62	4.87	1.28
T 60 x 60 x 10	8.81	60	10	2	1101.72	18.62	35.47	8.57	1.79	18.42	6.14	1.29
T 65 x 65 x 5	5.01	65	5	2	626.72	18.07	25.57	5.45	2.02	11.51	3.54	1.35
T 65 x 65 x 6	5.97	65	6	2	745.72	18.44	30.01	6.45	2.01	13.84	4.26	1.36
T 65 x 65 x 7	6.90	65	7	2	862.72	18.80	34.25	7.41	1.99	16.19	4.98	1.37
T 65 x 65 x 8	7.82	65	8	2	977.72	19.17	38.30	8.36	1.98	18.55	5.71	1.38
T 65 x 65 x 9	8.73	65	9	2	1090.72	19.53	42.18	9.28	1.97	20.94	6.44	1.39
T 65 x 65 x 10	9.61	65	10	2	1201.72	19.88	45.89	10.17	1.95	23.34	7.18	1.39
T 70 x 70 x 5	5.41	70	5	2	676.72	19.32	32.19	6.35	2.18	14.36	4.10	1.46
T 70 x 70 x 6	6.45	70	6	2	805.72	19.69	37.84	7.52	2.17	17.27	4.93	1.46
T 70 x 70 x 7	7.46	70	7	2	932.72	20.06	43.25	8.66	2.15	20.19	5.77	1.47
T 70 x 70 x 8	8.46	70	8	2	1057.72	20.42	48.43	9.77	2.14	23.13	6.61	1.48
T 70 x 70 x 9	9.45	70	9	2	1180.72	20.78	53.41	10.85	2.13	26.10	7.46	1.49
T 70 x 70 x 10	10.41	70	10	2	1301.72	21.14	58.18	11.91	2.11	29.08	8.31	1.49
T 75 x 75 x 5	5.81	75	5	2	726.72	20.57	39.87	7.32	2.34	17.65	4.71	1.56
T 75 x 75 x 6	6.93	75	6	2	865.72	20.94	46.92	8.68	2.33	21.22	5.66	1.57
T 75 x 75 x 7	8.02	75	7	2	1002.72	21.31	53.70	10.00	2.31	24.80	6.61	1.57
T 75 x 75 x 8	9.10	75	8	2	1137.72	21.67	60.21	11.29	2.30	28.41	7.58	1.58
T 75 x 75 x 9	10.17	75	9	2	1270.72	22.04	66.48	12.55	2.29	32.04	8.54	1.59
T 75 x 75 x 10	11.21	75	10	2	1401.72	22.40	72.50	13.78	2.27	35.70	9.52	1.60
T 80 x 80 x 5	6.21	80	5	2	776.72	21.82	48.68	8.37	2.50	21.41	5.35	1.66
T 80 x 80 x 6	7.41	80	6	2	925.72	22.19	57.35	9.92	2.49	25.73	6.43	1.67

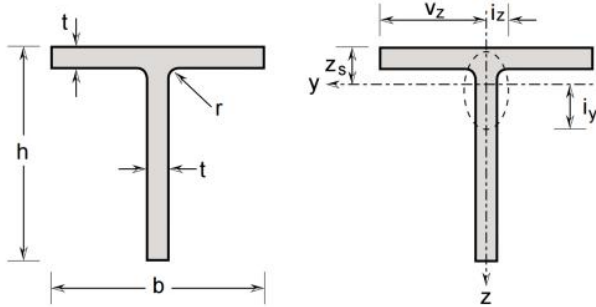


## Equal flange tees Stainless steel

Dimensions and tolerances: in accordance with EN 10055  
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



Designation		Dimensions				Position of axes y-y	Structural properties					
							Axis y-y			Axis z-z		
G	h = b	t	r*	A	Z <sub>s</sub>	I <sub>y</sub>	W <sub>el,y</sub>	i <sub>y</sub>	I <sub>z</sub>	W <sub>el,z</sub>	i <sub>z</sub>	
kg/m	mm	mm	mm	mm <sup>2</sup> x10 <sup>2</sup>	mm	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mmx10	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mmx10	
T 80 x 80 x 7	8.58	80	7	2	1072.72	22.56	65.71	11.44	2.48	30.08	7.52	1.67
T 80 x 80 x 8	9.74	80	8	2	1217.72	22.93	73.77	12.92	2.46	34.44	8.61	1.68
T 80 x 80 x 9	10.89	80	9	2	1360.72	23.29	81.53	14.38	2.45	38.83	9.71	1.69
T 80 x 80 x 10	12.01	80	10	2	1501.72	23.65	89.01	15.80	2.43	43.25	10.81	1.70
T 90 x 90 x 6	8.37	90	6	2	1045.72	24.69	82.64	12.65	2.81	36.60	8.13	1.87
T 90 x 90 x 7	9.70	90	7	2	1212.72	25.06	94.87	14.61	2.80	42.76	9.50	1.88
T 90 x 90 x 8	11.02	90	8	2	1377.72	25.43	106.70	16.53	2.78	48.95	10.88	1.88
T 90 x 90 x 9	12.33	90	9	2	1540.72	25.80	118.15	18.40	2.77	55.17	12.26	1.89
T 90 x 90 x 10	13.61	90	10	2	1701.72	26.16	129.22	20.24	2.76	61.42	13.65	1.90
T 100 x 100 x 6	9.33	100	6	2	1165.72	27.20	114.46	15.72	3.13	50.17	10.03	2.07
T 100 x 100 x 7	10.82	100	7	2	1352.72	27.57	131.60	18.17	3.12	58.60	11.72	2.08
T 100 x 100 x 8	12.30	100	8	2	1537.72	27.94	148.24	20.57	3.10	67.06	13.41	2.09
T 100 x 100 x 9	13.77	100	9	2	1720.72	28.30	164.39	22.93	3.09	75.55	15.11	2.10
T 100 x 100 x 10	15.21	100	10	2	1901.72	28.67	180.06	25.24	3.08	84.08	16.82	2.10
T 100 x 100 x 12	18.06	100	12	2	2257.72	29.39	210.06	29.75	3.05	101.27	20.25	2.12
T 110 x 110 x 6	10.29	110	6	2	1285.72	29.70	153.56	19.12	3.46	66.74	12.13	2.28
T 110 x 110 x 7	11.94	110	7	2	1492.72	30.07	176.78	22.12	3.44	77.94	14.17	2.28
T 110 x 110 x 8	13.58	110	8	2	1697.72	30.44	199.38	25.06	3.43	89.17	16.21	2.29
T 110 x 110 x 9	15.21	110	9	2	1900.72	30.81	221.37	27.95	3.41	100.44	18.26	2.30
T 110 x 110 x 10	16.81	110	10	2	2101.72	31.17	242.78	30.80	3.40	111.75	20.32	2.31
T 110 x 110 x 11	18.41	110	11	2	2300.72	31.54	263.61	33.60	3.38	123.11	22.38	2.31
T 110 x 110 x 12	19.98	110	12	2	2497.72	31.90	283.90	36.35	3.37	134.51	24.46	2.32
T 120 x 120 x 7	13.06	120	7	2	1632.72	32.57	231.28	26.45	3.76	101.12	16.85	2.49
T 120 x 120 x 8	14.86	120	8	2	1857.72	32.94	261.12	29.99	3.75	115.68	19.28	2.50
T 120 x 120 x 9	16.65	120	9	2	2080.72	33.31	290.23	33.48	3.73	130.28	21.71	2.50
T 120 x 120 x 10	18.41	120	10	2	2301.72	33.68	318.62	36.91	3.72	144.92	24.15	2.51
T 120 x 120 x 11	20.17	120	11	2	2520.72	34.04	346.32	40.29	3.71	159.61	26.60	2.52



### Equal flange tees Stainless steel

Dimensions and tolerances: in accordance with EN 10055  
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

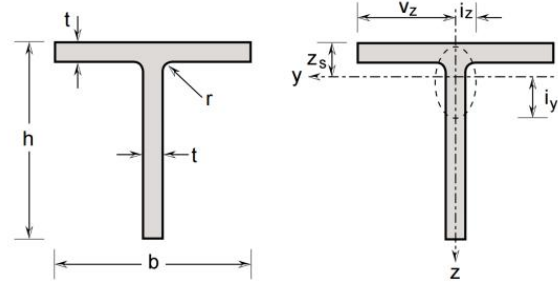
### Structural properties

Designation		Dimensions				Position of axes y-y	Axis y-y			Axis z-z		
	G kg/m	h = b mm	t mm	r* mm	A mm <sup>2</sup> × 10 <sup>2</sup>	Z <sub>s</sub> mm	I <sub>y</sub> mm <sup>4</sup> × 10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> × 10 <sup>3</sup>	i <sub>y</sub> mm × 10	I <sub>z</sub> mm <sup>4</sup> × 10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> × 10 <sup>3</sup>	i <sub>z</sub> mm × 10
T 120 x 120 x 12	21.90	120	12	2	2737.72	34.41	373.34	43.62	3.69	174.36	29.06	2.52
T 120 x 120 x 13	23.62	120	13	2	2952.72	34.77	399.71	46.90	3.68	189.16	31.53	2.53
T 120 x 120 x 15	27.01	120	15	2	3376.72	35.49	450.55	53.31	3.65	218.95	36.49	2.55
T 130 x 130 x 8	16.14	130	8	2	2017.72	35.45	334.46	35.37	4.07	146.99	22.61	2.70
T 130 x 130 x 9	18.09	130	9	2	2260.72	35.81	372.08	39.50	4.06	165.51	25.46	2.71
T 130 x 130 x 10	20.01	130	10	2	2501.72	36.18	408.84	43.58	4.04	184.08	28.32	2.71
T 130 x 130 x 11	21.93	130	11	2	2740.72	36.55	444.77	47.59	4.03	202.71	31.19	2.72
T 130 x 130 x 12	23.82	130	12	2	2977.72	36.91	479.88	51.55	4.01	221.40	34.06	2.73
T 130 x 130 x 13	25.70	130	13	2	3212.72	37.28	514.21	55.46	4.00	240.15	36.95	2.73
T 130 x 130 x 15	29.41	130	15	2	3676.72	38.00	580.57	63.11	3.97	277.86	42.75	2.75
T 140 x 140 x 8	17.42	140	8	2	2177.72	37.95	420.41	41.20	4.39	183.50	26.21	2.90
T 140 x 140 x 9	19.53	140	9	2	2440.72	38.32	468.05	46.03	4.38	206.60	29.51	2.91
T 140 x 140 x 10	21.61	140	10	2	2701.72	38.69	514.68	50.80	4.36	229.75	32.82	2.92
T 140 x 140 x 11	23.69	140	11	2	2960.72	39.05	560.33	55.51	4.35	252.97	36.14	2.92
T 140 x 140 x 12	25.74	140	12	2	3217.72	39.42	605.03	60.15	4.34	276.24	39.46	2.93
T 140 x 140 x 13	27.78	140	13	2	3472.72	39.78	648.78	64.74	4.32	299.59	42.80	2.94
T 140 x 140 x 15	31.81	140	15	2	3976.72	40.51	733.56	73.73	4.29	346.52	49.50	2.95
T 150 x 150 x 8	18.70	150	8	2	2337.72	40.45	519.96	47.46	4.72	225.61	30.08	3.11
T 150 x 150 x 9	20.97	150	9	2	2620.72	40.82	579.27	53.06	4.70	253.98	33.86	3.11
T 150 x 150 x 10	23.21	150	10	2	2901.72	41.19	637.41	58.58	4.69	282.42	37.66	3.12
T 150 x 150 x 12	27.66	150	12	2	3457.72	41.92	750.27	69.42	4.66	339.49	45.27	3.13
T 150 x 150 x 13	29.86	150	13	2	3732.72	42.29	805.05	74.74	4.64	368.13	49.08	3.14
T 150 x 150 x 15	34.21	150	15	2	4276.72	43.02	911.40	85.19	4.62	425.67	56.76	3.15
T 150 x 150 x 20	44.81	150	20	2	5601.72	44.81	1159.75	110.26	4.55	571.17	76.16	3.19
T 160 x 160 x 10	24.81	160	10	2	3101.72	43.69	778.26	66.91	5.01	342.58	42.82	3.32
T 160 x 160 x 12	29.58	160	12	2	3697.72	44.43	917.12	79.35	4.98	411.73	51.47	3.34
T 160 x 160 x 13	31.94	160	13	2	3992.72	44.79	984.64	85.47	4.97	446.43	55.80	3.34

# T

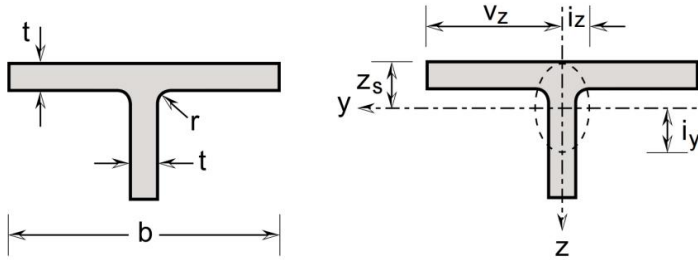
## Equal flange tees Stainless steel

Dimensions and tolerances: in accordance with EN 10055  
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled



### Structural properties

Designation	Dimensions					Position of axes y-y Z <sub>s</sub> mm	Axis y-y			Axis z-z		
	G kg/m	h = b mm	t mm	r* mm	A mm <sup>2</sup> x10 <sup>2</sup>		I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,y</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10
T 160 x 160 x 15	36.61	160	15	2	4576.72	45.52	1115.96	97.48	4.94	516.08	64.51	3.36
T 160 x 160 x 20	48.01	160	20	2	6001.72	47.33	1423.86	126.37	4.87	692.00	86.50	3.40
T 180 x 180 x 10	28.01	180	10	2	3501.72	48.70	1119.34	85.25	5.65	487.42	54.16	3.73
T 180 x 180 x 12	33.42	180	12	2	4177.72	49.43	1321.62	101.22	5.62	585.62	65.07	3.74
T 180 x 180 x 13	36.10	180	13	2	4512.72	49.80	1420.28	109.08	5.61	634.86	70.54	3.75
T 180 x 180 x 15	41.41	180	15	2	5176.72	50.53	1612.75	124.57	5.58	733.64	81.52	3.76
T 180 x 180 x 20	54.41	180	20	2	6801.72	52.34	2067.08	161.93	5.51	982.67	109.19	3.80
T 200 x 200 x 10	31.21	200	10	2	3901.72	53.70	1547.93	105.80	6.30	668.25	66.83	4.14
T 200 x 200 x 12	37.26	200	12	2	4657.72	54.44	1830.54	125.76	6.27	802.71	80.27	4.15
T 200 x 200 x 13	40.26	200	13	2	5032.72	54.81	1968.70	135.59	6.25	870.09	87.01	4.16
T 200 x 200 x 15	46.21	200	15	2	5776.72	55.54	2238.91	154.98	6.23	1005.20	100.52	4.17
T 200 x 200 x 20	60.81	200	20	2	7601.72	57.36	2880.30	201.93	6.16	1345.34	134.53	4.21
T 250 x 250 x 10	39.21	250	10	2	4901.72	66.20	3067.88	166.92	7.91	1304.08	104.33	5.16
T 250 x 250 x 12	46.86	250	12	2	5857.72	66.95	3638.35	198.76	7.88	1565.93	125.27	5.17
T 250 x 250 x 13	50.66	250	13	2	6332.72	67.32	3918.50	214.50	7.87	1697.05	135.76	5.18
T 250 x 250 x 15	58.21	250	15	2	7276.72	68.05	4468.82	245.61	7.84	1959.74	156.78	5.19
T 250 x 250 x 20	76.81	250	20	2	9601.72	69.89	5788.41	321.38	7.76	2619.50	209.56	5.22
T 300 x 300 x 10	47.21	300	10	2	5901.72	78.71	5353.51	241.92	9.52	2252.42	150.16	6.18
T 300 x 300 x 12	56.46	300	12	2	7057.72	79.45	6361.23	288.43	9.49	2704.15	180.28	6.19
T 300 x 300 x 13	61.06	300	13	2	7632.72	79.82	6857.57	311.46	9.48	2930.26	195.35	6.20
T 300 x 300 x 15	70.21	300	15	2	8776.72	80.56	7835.50	357.07	9.45	3383.02	225.53	6.21
T 300 x 300 x 20	92.81	300	20	2	11601.72	82.40	10196.57	468.60	9.37	4518.67	301.24	6.24



### Unequal flange tees Stainless steel

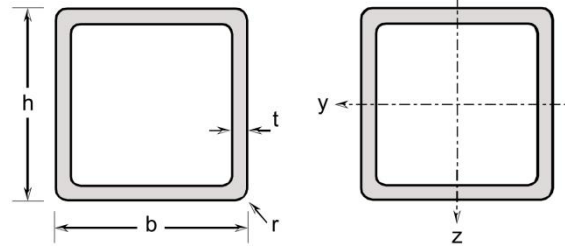
Dimensions and tolerances: in accordance with EN 10055  
Grade according to EN 10088-3: 1D  
Surface condition: blasted and pickled

General properties							Structural properties						
Designation		Dimensions					Position of axes y-y	Axis y-y			Axis z-z		
	G kg/m	h mm	b mm	T mm	r* mm	A mm <sup>2</sup> x 10 <sup>2</sup>	Z <sub>s</sub> mm	I <sub>y</sub> mm <sup>4</sup> x 10 <sup>4</sup>	W <sub>y</sub> mm <sup>3</sup> x 10 <sup>3</sup>	i <sub>y</sub> mm x 10	I <sub>z</sub> mm <sup>4</sup> x 10 <sup>4</sup>	W <sub>el,z</sub> mm <sup>3</sup> x 10 <sup>3</sup>	i <sub>z</sub> mm x 10
TB 20	1.81	20	40	4	2	225.72	4.85	0.62	0.41	0.52	2.14	1.07	0.97
TB 25	2.81	25	50	5	2	351.72	6.07	1.50	0.79	0.65	5.23	2.09	1.22
TB 30	3.73	30	60	5.5	2	466.47	7.09	2.91	1.27	0.79	9.93	3.31	1.46
TB 35	4.77	35	70	6	2	595.72	8.12	5.11	1.9	0.93	17.20	4.92	1.70
TB 40	5.22	40	60	7	2	652.72	10.59	8.23	2.8	1.12	12.70	4.23	1.39
TB 50	9.64	50	100	8.5	2	1204.47	11.58	21.16	5.51	1.33	71.05	14.21	2.43
TB 60	13.61	60	120	10	2	1701.72	13.82	43.18	9.35	1.59	144.42	24.07	2.91



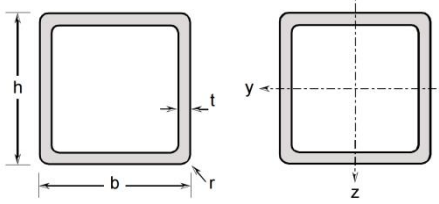
## Square Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled



### Structural properties

Designation		Dimensions					Axis y-y / Axis z-z						
	G kg/m	h mm	B mm	t mm	r mm	A mm <sup>2</sup> x 10 <sup>2</sup>	I <sub>y</sub> =I <sub>z</sub> mm <sup>4</sup> x 10 <sup>4</sup>	W <sub>ely</sub> = W <sub>elz</sub> mm <sup>3</sup> x 10 <sup>3</sup>	W <sub>ply</sub> = W <sub>plz</sub> mm <sup>3</sup> x 10 <sup>3</sup>	i <sub>y</sub> = i <sub>z</sub> mm x 10	I <sub>v</sub> mm <sup>4</sup> x 10 <sup>4</sup>	W <sub>v</sub> mm <sup>3</sup> x 10 <sup>3</sup>	
50	4.33	50	50	3	6	5.41	19.47	7.79	9.39	1.90	32.13	11.80	
	5.56	50	50	4	8	6.95	23.74	9.49	11.73	1.85	40.42	14.46	
	6.68	50	50	5	10	8.36	27.04	10.82	13.71	1.80	47.46	16.58	
60	5.29	60	60	3	6	6.61	35.13	11.71	13.95	2.31	57.09	17.70	
	6.84	60	60	4	8	8.55	43.55	14.52	17.65	2.26	72.64	22.03	
	8.28	60	60	5	10	10.36	50.49	16.83	20.89	2.21	86.42	25.66	
	9.63	60	60	6	12	12.03	56.07	18.69	23.70	2.16	98.41	28.64	
70	6.25	70	70	3	6	7.81	57.53	16.44	19.42	2.71	92.42	24.80	
	8.12	70	70	4	8	10.15	72.12	20.61	24.76	2.67	118.52	31.19	
	9.88	70	70	5	10	12.36	84.63	24.18	29.57	2.62	142.21	36.74	
	11.55	70	70	6	12	14.43	95.17	27.19	33.85	2.57	163.49	41.49	
75	6.73	75	75	3	6	8.41	71.62	19.10	22.49	2.92	114.54	28.80	
	8.76	75	75	4	8	10.95	90.19	24.05	28.77	2.87	147.32	36.38	
	10.68	75	75	5	10	13.36	106.33	28.35	34.47	2.82	177.35	43.03	
	12.51	75	75	6	12	15.63	120.16	32.04	39.60	2.77	204.62	48.81	
80	7.21	80	80	3	6	9.01	87.84	21.96	25.78	3.12	139.93	31.10	
	9.40	80	80	4	8	11.75	111.04	27.76	33.08	3.07	180.44	41.96	
	11.48	80	80	5	10	14.36	131.44	32.86	39.75	3.03	217.83	49.81	
	13.47	80	80	6	12	16.83	149.18	37.29	45.81	2.98	252.07	56.72	
90	16.67	80	80	8	20	20.84	166.24	41.56	55.18	2.82	307.14	66.60	
	8.17	90	90	3	6	10.21	127.28	28.29	33.05	3.53	201.42	42.60	
	10.68	90	90	4	8	13.35	161.92	35.98	42.59	3.48	260.80	54.32	
	13.08	90	90	5	10	16.36	192.93	42.87	51.42	3.43	316.26	64.88	
	15.39	90	90	6	12	19.23	220.48	48.99	59.56	3.39	367.76	74.35	
19.23	90	90	8	20	24.04	252.07	56.02	72.56	3.24	455.59	88.89		



## Square Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled

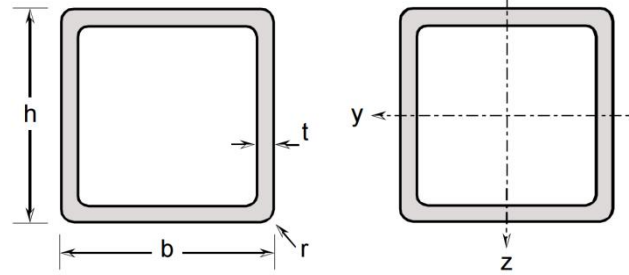
### Structural properties

Designation		Dimensions					Axis y-y / Axis z-z						
	G kg/m	h mm	b mm	t mm	r mm	A mm <sup>2</sup> x10 <sup>2</sup>	I <sub>y</sub> =I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>ely</sub> = W <sub>elz</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>ply</sub> = W <sub>plz</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> = i <sub>z</sub> mmx10	I <sub>v</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>v</sub> mm <sup>3</sup> x10 <sup>3</sup>	
100	9.13	100	100	3	6	11.41	177.05	35.41	41.21	3.94	278.68	53.30	
	11.96	100	100	4	8	14.95	226.35	45.27	53.30	3.89	362.01	68.27	
	14.68	100	100	5	10	18.36	271.10	54.22	64.60	3.84	440.52	81.95	
	17.31	100	100	6	12	21.63	311.47	62.29	75.12	3.79	514.16	94.37	
	21.79	100	100	8	20	27.24	363.04	72.61	92.34	3.65	644.51	114.36	
	26.05	100	100	10	25	32.57	405.87	81.17	107.77	3.53	749.84	130.08	
	28.85	100	100	12	36	36.06	382.28	76.46	120.23	3.26	793.64	135.79	
120	11.05	120	120	3	6	13.81	312.35	52.06	60.24	4.76	487.72	78.30	
	14.52	120	120	4	8	18.15	402.28	67.05	78.33	4.71	636.57	100.99	
	17.88	120	120	5	10	22.36	485.47	80.91	95.46	4.66	778.50	122.07	
	21.15	120	120	6	12	26.43	562.16	93.69	111.63	4.61	913.46	141.60	
	26.91	120	120	8	20	33.64	673.21	112.20	139.10	4.47	1163.0	174.88	
	32.45	120	120	10	25	40.57	770.10	128.35	164.33	4.36	1376.4	202.71	
	36.53	120	120	12	36	45.66	770.70	128.45	184.61	4.11	1518.4	219.19	
140	12.72	140	140	3	12	15.90	484	69.1	81.1	5.52	790	107.7	
150	13.93	150	150	3	6	17.41	622.73	83.03	95.53	5.98	964.61	124.80	
	18.36	150	150	4	8	22.95	807.82	107.71	124.87	5.93	1264.8	162.05	
	22.68	150	150	5	10	28.36	982.12	130.95	152.99	5.89	1554.1	197.24	
	26.91	150	150	6	12	33.63	1145.9	152.79	179.90	5.84	1832.7	230.43	
	34.59	150	150	8	20	43.24	1407.0	187.60	227.24	5.70	2364.1	289.61	
	42.05	150	150	10	25	52.57	1643.6	219.14	271.68	5.59	2839.2	341.56	
	48.05	150	150	12	36	60.06	1730.9	230.79	308.17	5.37	3230.6	380.18	
160	14.89	160	160	3	6	18.61	759.64	94.95	109.10	6.39	1174.3	142.70	
	19.64	160	160	4	8	24.55	987.17	123.40	142.79	6.34	1541.4	185.61	
	24.28	160	160	5	10	30.36	1202.4	150.29	175.17	6.29	1896.3	226.30	
	28.83	160	160	6	12	36.03	1405.5	175.69	206.26	6.25	2238.9	264.83	



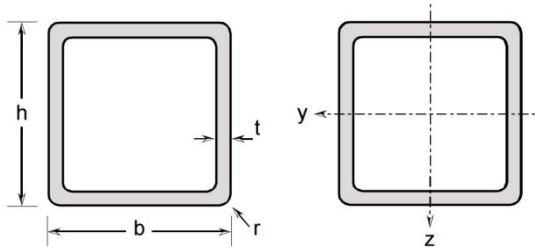
## Square Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled



### Structural properties

Designation		Dimensions					Axis y-y / Axis z-z						
G	h	b	t	r	A	$I_y = I_z$	$W_{ely} = W_{elz}$	$W_{ply} = W_{plz}$	$i_y = i_z$	$I_v$	$W_v$		
kg/m	mm	mm	mm	mm	mm <sup>2</sup> x10 <sup>2</sup>	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mmx10	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>		
160	37.15	160	160	8	20	46.44	1736.0	217.00	261.43	6.11	2896.6	334.25	
	45.25	160	160	10	25	56.57	2038.0	254.75	313.46	6.00	3490.3	395.82	
	51.89	160	160	12	36	64.86	2170.9	271.37	356.56	5.79	3996.7	443.42	
180	16.81	180	180	3	6	21.01	1090.8	121.20	138.92	7.21	1680.7	182.10	
	22.20	180	180	4	8	27.75	1421.7	157.97	182.22	7.16	2210.2	237.52	
	27.48	180	180	5	10	34.36	1736.9	192.99	224.03	7.11	2724.2	290.41	
	32.67	180	180	6	12	40.83	2036.5	226.28	264.37	7.06	3222.6	340.83	
	42.27	180	180	8	20	52.84	2539.9	282.21	336.99	6.93	4188.6	433.11	
	51.65	180	180	10	25	64.57	3005.6	333.96	406.03	6.82	5073.6	516.33	
	59.57	180	180	12	36	74.46	3259.5	362.17	464.14	6.62	5865.3	584.29	
200	18.73	200	200	3	6	23.41	1506.5	150.65	172.35	8.02	2314.9	226.29	
	24.76	200	200	4	8	30.95	1968.1	196.81	226.44	7.97	3048.7	295.82	
	30.68	200	200	5	10	38.36	2410.1	241.01	278.88	7.93	3763.3	362.52	
	36.51	200	200	6	12	45.63	2832.7	283.27	329.69	7.88	4458.8	426.44	
	47.39	200	200	8	20	59.24	3559.5	355.95	422.15	7.75	5815.2	544.76	
	58.05	200	200	10	25	72.57	4238.4	423.84	510.60	7.64	7071.7	652.82	
	67.25	200	200	12	36	84.06	4658.4	465.84	586.12	7.44	8230.1	744.34	
	27.32	220	220	4	8	34.15	2639.1	239.92	275.47	8.79	4076.1	360.53	
220	33.88	220	220	5	10	42.36	3238.0	294.37	339.74	8.74	5037.7	442.62	
	40.35	220	220	6	12	50.43	3813.4	346.67	402.20	8.70	5976.2	521.63	
	52.51	220	220	8	20	65.64	4820.5	438.23	516.91	8.57	7814.8	669.21	
	64.45	220	220	10	25	80.57	5768.3	524.39	627.16	8.46	9532.8	805.30	
	74.93	220	220	12	36	94	6405.8	582.3	722.5	8.3	11148.8	923.57	
	250	38.68	250	250	5	10	48.36	4805.0	384.40	442.27	9.97	7443.0	577.78
		46.11	250	250	6	12	57.63	5672.0	453.76	524.47	9.92	8842.5	682.43
60.19		250	250	8	20	75.24	7220.5	577.64	677.06	9.80	11598	879.88	



## Square Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled

### Structural properties

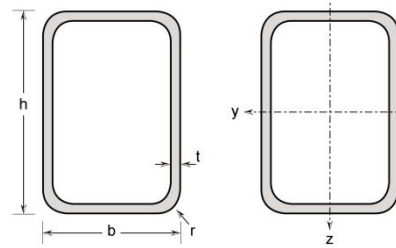
Designation		Dimensions					Axis y-y / Axis z-z					
	G kg/m	h mm	b mm	t mm	r mm	A mm <sup>2</sup> x 10 <sup>2</sup>	I <sub>y</sub> =I <sub>z</sub> mm <sup>4</sup> x 10 <sup>4</sup>	W <sub>ely</sub> = W <sub>elz</sub> mm <sup>3</sup> x 10 <sup>3</sup>	W <sub>ply</sub> = W <sub>plz</sub> mm <sup>3</sup> x 10 <sup>3</sup>	i <sub>y</sub> = i <sub>z</sub> mm x 10	I <sub>v</sub> mm <sup>4</sup> x 10 <sup>4</sup>	W <sub>v</sub> mm <sup>3</sup> x 10 <sup>3</sup>
250	74.05	250	250	10	25	92.57	8690.2	695.22	824.51	9.69	14197	1064.0
	86.45	250	250	12	36	108.06	9764.5	781.16	954.07	9.51	16691	1228.4
300	46.68	300	300	5	10	58.36	8416.9	561.13	643.16	12.01	12968	843.04
	55.71	300	300	6	12	69.63	9963.7	664.24	764.25	11.96	15434	998.41
	72.99	300	300	8	20	91.24	12790	852.67	991.96	11.84	20312	1295.0
	90.05	300	300	10	25	112.57	15499	1033.3	1213.4	11.73	24966	1575.1
350	105.65	300	300	12	36	132.06	17649	1176.6	1412.0	11.56	29514	1832.4
	85.79	350	350	8	20	107.24	20668	1181.0	1366.9	13.88	32557	1790.0
	106.05	350	350	10	25	132.57	25165	1438.0	1677.3	13.78	40127	2186.2
400	124.85	350	350	12	36	156.06	28913	1652.2	1960.0	13.61	47598	2556.3
	98.59	400	400	8	20	123.24	31255	1562.7	1801.8	15.92	48934	2365.1
	122.05	400	400	10	25	152.57	38188	1909.4	2216.3	15.82	60431	2897.3
	144.05	400	400	12	36	180.06	44155	2207.8	2597.9	15.66	71843	3400.3





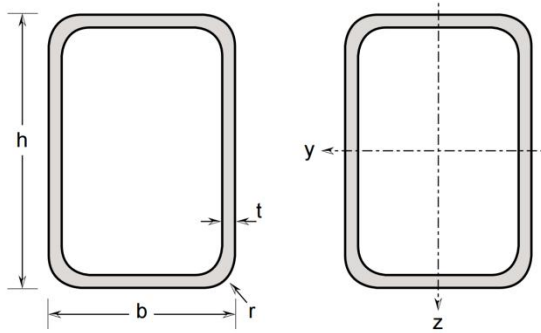
## Rectangular Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled



### Structural properties

Designation		Dimensions					Axis y-y				Axis z-z					
	G	h	B	t	r	A	I <sub>y</sub>	W <sub>ely</sub>	W <sub>ply</sub>	i <sub>y</sub>	I <sub>z</sub>	W <sub>eiz</sub>	W <sub>piz</sub>	i <sub>z</sub>	I <sub>v</sub>	W <sub>v</sub>
	kg/m	mm	mm	mm	mm	mm <sup>2</sup> x10 <sup>2</sup>	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mmx10	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mm <sup>3</sup> x10 <sup>3</sup>	mmx10	mm <sup>4</sup> x10 <sup>4</sup>	mm <sup>3</sup> x10 <sup>3</sup>
60x40	4.33	60	40	3	6	5.41	25.38	8.46	10.53	2.17	13.44	6.72	7.95	1.58	29.28	10.97
	5.56	60	40	4	8	6.95	30.99	10.33	13.17	2.11	16.28	8.14	9.90	1.53	36.67	13.32
	6.68	60	40	5	10	8.36	35.33	11.78	15.39	2.06	18.43	9.21	11.53	1.48	42.85	15.11
70x50	5.29	70	50	3	6	6.61	44.05	12.59	15.40	2.58	26.10	10.44	12.21	1.99	53.62	16.86
	6.84	70	50	4	8	8.55	54.67	15.62	19.48	2.53	32.22	12.89	15.41	1.94	68.07	20.84
	8.28	70	50	5	10	10.36	63.46	18.13	23.07	2.48	37.20	14.88	18.21	1.90	80.77	24.12
80x40	5.29	80	40	3	6	6.61	52.25	13.06	16.54	2.81	17.56	8.78	10.17	1.63	43.88	14.85
	6.84	80	40	4	8	8.55	64.79	16.20	20.92	2.75	21.49	10.74	12.78	1.59	55.24	18.15
	8.28	80	40	5	10	10.36	75.11	18.78	24.75	2.69	24.59	12.30	15.03	1.54	64.97	20.74
	9.63	80	40	6	12	12.03	83.32	20.83	28.05	2.63	26.96	13.48	16.94	1.50	73.07	22.71
80x50	5.77	80	50	3	6	7.21	61.15	15.29	18.85	2.91	29.42	11.77	13.62	2.02	65.00	19.39
	7.48	80	50	4	8	9.35	76.36	19.09	23.96	2.86	36.46	14.59	17.25	1.98	82.70	24.03
	9.08	80	50	5	10	11.36	89.19	22.30	28.50	2.80	42.29	16.92	20.46	1.93	98.40	27.90
	10.59	80	50	6	12	13.23	99.79	24.95	32.49	2.75	46.99	18.79	23.26	1.88	112.1	31.03
80x60	6.25	80	60	3	6	7.81	70.05	17.51	21.16	3.00	44.89	14.96	17.37	2.40	88.35	23.94
	8.12	80	60	4	8	10.15	87.92	21.98	27.00	2.94	56.12	18.71	22.13	2.35	113.1	29.98
	9.88	80	60	5	10	12.36	103.28	25.82	32.25	2.89	65.66	21.89	26.39	2.31	135.5	35.15
	11.55	80	60	6	12	14.43	116.25	29.06	36.93	2.84	73.63	24.54	30.18	2.26	155.6	39.51
100x40	6.25	100	40	3	6	7.81	92.34	18.47	23.75	3.44	21.67	10.84	12.39	1.67	59.05	18.74
	8.12	100	40	4	8	10.15	115.70	23.14	30.26	3.38	26.69	13.35	15.66	1.62	74.53	22.98
	9.88	100	40	5	10	12.36	135.60	27.12	36.10	3.31	30.76	15.38	18.53	1.58	87.92	26.38
	11.55	100	40	6	12	14.43	152.21	30.44	41.28	3.25	33.96	16.98	21.02	1.53	99.26	29.03
100x50	6.73	100	50	3	6	8.41	106.46	21.29	26.66	3.56	36.06	14.42	16.44	2.07	88.56	24.45
	8.76	100	50	4	8	10.95	134.14	26.83	34.10	3.50	44.95	17.98	20.93	2.03	112.99	30.41



## Rectangular Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled

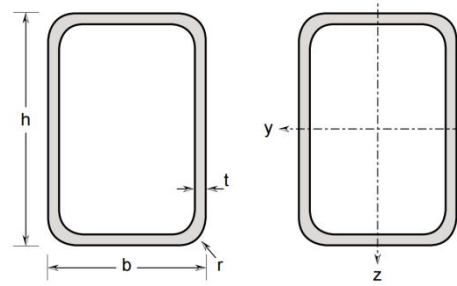
### Structural properties

Designation		Dimensions					Axis y-y				Axis z-z					
	G kg/m	h mm	b mm	t mm	r mm	A mm <sup>2</sup> x10 <sup>2</sup>	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>ely</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>ply</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>elz</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>plz</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10	I <sub>v</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>v</sub> mm <sup>3</sup> x10 <sup>3</sup>
100x50	10.68	100	50	5	10	13.36	158.19	31.64	40.85	3.44	52.45	20.98	24.96	1.98	134.87	35.44
	12.51	100	50	6	12	15.63	178.75	35.75	46.92	3.38	58.67	23.47	28.54	1.94	154.20	39.60
100x60	7.21	100	60	3	6	9.01	120.57	24.11	29.57	3.66	54.65	18.22	20.79	2.46	121.67	30.19
	9.40	100	60	4	8	11.75	152.58	30.52	37.94	3.60	68.68	22.89	26.61	2.42	156.27	37.92
	11.48	100	60	5	10	14.36	180.77	36.15	45.60	3.55	80.83	26.94	31.89	2.37	187.86	44.63
	13.47	100	60	6	12	16.83	205.30	41.06	52.56	3.49	91.20	30.40	36.66	2.33	216.44	50.38
	16.67	100	60	8	20	20.84	227.28	45.46	62.90	3.30	100.82	33.61	44.25	2.20	260.32	58.01
100x80	8.17	100	80	3	6	10.21	148.81	29.76	35.39	3.82	105.64	26.41	30.40	3.22	196.12	41.73
	10.68	100	80	4	8	13.35	189.47	37.89	45.62	3.77	134.17	33.54	39.16	3.17	253.79	53.06
	13.08	100	80	5	10	16.36	225.94	45.19	55.10	3.72	159.61	39.90	47.25	3.12	307.55	63.21
	15.39	100	80	6	12	19.23	258.39	51.68	63.84	3.67	182.11	45.53	54.69	3.08	357.38	72.25
	19.23	100	80	8	20	24.04	295.16	59.03	77.62	3.50	207.89	51.97	66.70	2.94	441.84	85.92
120x40	7.21	120	40	3	6	9.01	148.04	24.67	32.16	4.05	25.79	12.89	14.61	1.69	74.56	22.62
	9.40	120	40	4	8	11.75	186.89	31.15	41.21	3.99	31.90	15.95	18.54	1.65	94.23	27.81
	11.48	120	40	5	10	14.36	220.81	36.80	49.46	3.92	36.93	18.46	22.03	1.60	111.35	32.02
120x60	8.17	120	60	3	6	10.21	189.12	31.52	39.18	4.30	64.40	21.47	24.21	2.51	156.34	36.43
	10.68	120	60	4	8	13.35	240.74	40.12	50.49	4.25	81.25	27.08	31.09	2.47	201.12	45.87
	13.08	120	60	5	10	16.36	286.97	47.83	60.96	4.19	95.99	32.00	37.39	2.42	242.23	54.11
	15.39	120	60	6	12	19.23	328.01	54.67	70.59	4.13	108.77	36.26	43.14	2.38	279.67	61.24
	19.23	120	60	8	20	24.04	371.64	61.94	85.34	3.93	122.62	40.87	52.57	2.26	339.55	71.23
120x80	9.13	120	80	3	6	11.41	230.20	38.37	46.20	4.49	123.43	30.86	35.02	3.29	255.47	50.35
	11.96	120	80	4	8	14.95	294.59	49.10	59.77	4.44	157.29	39.32	45.24	3.24	331.24	64.16
	14.68	120	80	5	10	18.36	353.14	58.86	72.46	4.39	187.78	46.94	54.75	3.20	402.27	76.61
	17.31	120	80	6	12	21.63	406.06	67.68	84.27	4.33	215.03	53.76	63.57	3.15	468.54	87.78



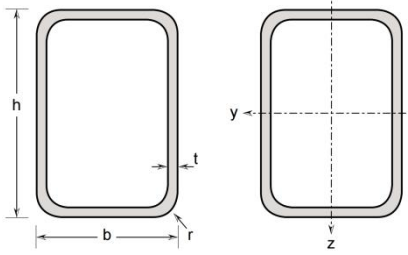
## Rectangular Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled



### Structural properties

Designation	Dimensions						Axis y-y					Axis z-z					
	G kg/m	h mm	b mm	T mm	r mm	A mm <sup>2</sup> x10 <sup>2</sup>	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>ely</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>ply</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>eiz</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>piz</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10	I <sub>v</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>v</sub> mm <sup>3</sup> x10 <sup>3</sup>	
120x100	10.09	120	100	3	6	12.61	271.27	45.21	53.22	4.64	205.28	41.06	47.03	4.04	367.01	64.32	
	13.24	120	100	4	8	16.55	348.43	58.07	69.05	4.59	263.24	52.65	60.98	3.99	477.84	82.55	
	16.28	120	100	5	10	20.36	419.31	69.88	83.96	4.54	316.27	63.25	74.10	3.94	582.86	99.29	
	19.23	120	100	6	12	24.03	484.11	80.68	97.95	4.49	364.56	72.91	86.40	3.89	682.04	114.61	
	24.35	120	100	8	20	30.44	572.69	95.45	121.18	4.34	430.93	86.19	107.06	3.76	861.65	139.88	
140x60	9.04	140	60	3	8	11.31	272.6	38.9	49.4	4.91	73.1	24.4	27.4	2.54	193	42.6	
	9.61	140	70	3	6	12.01	306.24	43.75	54.10	5.05	104.69	29.91	33.49	2.95	251.99	50.82	
	12.60	140	70	4	8	15.75	392.60	56.09	70.08	4.99	133.18	38.05	43.24	2.91	326.02	64.52	
	15.48	140	70	5	10	19.36	471.48	67.35	85.07	4.94	158.71	45.35	52.32	2.86	395.06	76.77	
	18.27	140	70	6	12	22.83	543.10	77.59	99.07	4.88	181.44	51.84	60.73	2.82	459.09	87.65	
140x70	23.07	140	70	8	20	28.84	633.87	90.55	121.54	4.69	210.59	60.17	74.91	2.70	569.14	104.38	
	27.65	140	70	10	25	34.57	710.80	101.54	141.90	4.53	233.81	66.80	87.42	2.60	654.94	116.69	
	10.09	140	80	3	6	12.61	334.40	47.77	58.21	5.15	141.23	35.31	39.64	3.35	317.07	58.97	
	13.24	140	80	4	8	16.55	429.60	61.37	75.52	5.10	180.42	45.10	51.32	3.30	411.60	75.26	
	16.28	140	80	5	10	20.36	517.06	73.87	91.82	5.04	215.94	53.99	62.25	3.26	500.51	90.01	
140x80	19.23	140	80	6	12	24.03	597.00	85.29	107.11	4.98	247.96	61.99	72.45	3.21	583.80	103.31	
	24.35	140	80	8	20	30.44	703.65	100.52	132.10	4.81	291.17	72.79	89.74	3.09	731.35	124.56	
	29.25	140	80	10	25	36.57	795.47	113.64	154.90	4.66	326.77	81.69	105.20	2.99	850.98	141.00	
	10.88	140	100	3	10	13.60	378.8	54.1	65.2	5.28	227.1	45.4	52.1	4.09	463	75.1	
	150x50	9.13	150	50	3	6	11.41	298.55	39.81	51.43	5.12	52.65	21.06	23.49	2.15	150.22	37.09
150x50	11.96	150	50	4	8	14.95	381.39	50.85	66.47	5.05	66.16	26.47	30.13	2.10	192.14	46.37	
	14.68	150	50	5	10	18.36	456.29	60.84	80.49	4.99	77.87	31.15	36.21	2.06	230.05	54.31	
	17.31	150	50	6	12	21.63	523.47	69.80	93.50	4.92	87.89	35.16	41.74	2.02	263.99	61.03	
150x80	10.57	150	80	3	6	13.21	395.80	52.77	64.66	5.47	150.13	37.53	41.95	3.37	348.52	63.29	



## Rectangular Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled

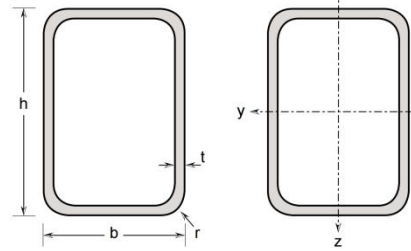
### Structural properties

Designation	Dimensions						Axis y-y					Axis z-z				
	G kg/m	h mm	b mm	t mm	r mm	A mm <sup>2</sup> x10 <sup>2</sup>	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>ely</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>ply</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>elz</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>plz</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10 <sup>4</sup>	I <sub>v</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>v</sub> mm <sup>3</sup> x10 <sup>3</sup>
150x80	13.88	150	80	4	8	17.35	09.32	67.91	83.99	5.42	191.98	48.00	54.36	3.33	452.62	80.81
	17.08	150	80	5	10	21.36	614.04	81.87	102.24	5.36	230.03	57.51	66.00	3.28	550.65	96.71
	20.19	150	80	6	12	25.23	710.20	94.69	119.42	5.31	264.43	66.11	76.89	3.24	642.61	111.07
	25.63	150	80	8	20	32.04	841.82	112.24	147.72	5.13	311.99	78.00	95.50	3.12	806.45	134.22
	30.85	150	80	10	25	38.57	956.41	127.52	173.68	4.98	351.44	87.86	112.20	3.02	940.38	152.27
150x100	11.53	150	100	3	6	14.41	460.64	61.42	73.48	5.65	247.64	49.53	55.76	4.15	507.20	80.83
	15.16	150	100	4	8	18.95	594.60	79.28	95.67	5.60	318.57	63.71	72.50	4.10	661.63	103.95
	18.68	150	100	5	10	23.36	719.20	95.89	116.74	5.55	384.02	76.80	88.35	4.05	808.68	125.31
	22.11	150	100	6	12	27.63	834.69	111.29	136.70	5.50	444.19	88.84	103.32	4.01	948.34	144.97
	28.19	150	100	8	20	35.24	1003.3	133.77	170.44	5.34	532.75	106.55	129.14	3.89	1205.9	178.17
	34.05	150	100	10	25	42.57	1152.7	153.70	201.68	5.20	609.20	121.84	152.77	3.78	1425.9	205.55
160x80	11.05	160	80	3	6	13.81	463.81	57.98	71.42	5.80	159.03	39.76	44.26	3.39	380.34	67.60
	14.52	160	80	4	8	18.15	597.71	74.71	92.87	5.74	203.54	50.89	57.40	3.35	494.10	86.36
	17.88	160	80	5	10	22.36	721.69	90.21	113.17	5.68	244.11	61.03	69.75	3.30	601.34	103.41
	21.15	160	80	6	12	26.43	836.01	104.50	132.34	5.62	280.89	70.22	81.33	3.26	702.06	118.84
	26.91	160	80	8	20	33.64	996.0	124.50	164.15	5.44	332.82	83.20	101.26	3.15	882.3	143.88
	32.45	160	80	10	25	40.57	1136.6	142.08	193.46	5.29	376.11	94.03	119.20	3.04	1030.7	163.54
160x90	11.53	160	90	3	6	14.41	500.79	62.60	76.13	5.90	206.79	45.95	51.32	3.79	465.40	76.96
	15.16	160	90	4	8	18.95	646.39	80.80	99.11	5.84	265.54	59.01	66.67	3.74	606.16	98.71
	18.68	160	90	5	10	23.36	781.77	97.72	120.92	5.79	319.52	71.00	81.17	3.70	739.70	118.67
	22.11	160	90	6	12	27.63	907.19	113.40	141.58	5.73	368.91	81.98	94.84	3.65	866.01	136.93
	28.19	160	90	8	20	35.24	1088.5	136.07	176.31	5.56	440.94	97.99	118.48	3.54	1096.5	167.33
	34.05	160	90	10	25	42.57	1249.3	156.16	208.46	5.42	502.35	111.63	139.98	3.44	1291.0	191.96
180x80	12.01	180	80	3	6	15.01	620.85	68.98	85.82	6.43	176.82	44.21	48.88	3.43	444.87	76.22



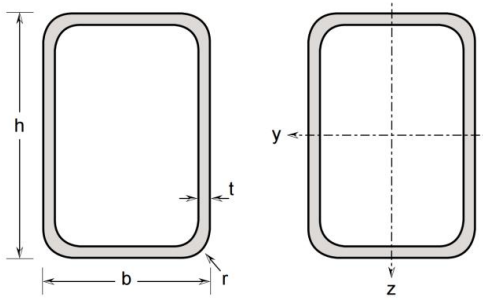
## Rectangular Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled



### Structural properties

Designation		Dimensions					Axis y-y					Axis z-z					
	G kg/m	h mm	b mm	t mm	r mm	A mm <sup>2</sup> x 10 <sup>2</sup>	I <sub>y</sub> mm <sup>4</sup> x 10 <sup>4</sup>	W <sub>ely</sub> mm <sup>3</sup> x 10 <sup>3</sup>	W <sub>ply</sub> mm <sup>3</sup> x 10 <sup>3</sup>	i <sub>y</sub> mm x 10	I <sub>z</sub> mm <sup>4</sup> x 10 <sup>4</sup>	W <sub>elz</sub> mm <sup>3</sup> x 10 <sup>3</sup>	W <sub>plz</sub> mm <sup>3</sup> x 10 <sup>3</sup>	i <sub>z</sub> mm x 10	I <sub>v</sub> mm <sup>4</sup> x 10 <sup>4</sup>	W <sub>v</sub> mm <sup>3</sup> x 10 <sup>3</sup>	
180x80	15.80	180	80	4	8	19.75	802.12	89.12	111.82	6.37	226.67	56.67	63.48	3.39	578.22	97.46	
	19.48	180	80	5	10	24.36	971.03	107.89	136.53	6.31	272.28	68.07	77.25	3.34	704.11	116.81	
	23.07	180	80	6	12	28.83	1127.9	125.32	159.97	6.25	313.82	78.45	90.21	3.30	822.55	134.37	
	29.47	180	80	8	20	36.84	1355.7	150.63	199.39	6.07	374.46	93.61	112.78	3.19	1036.0	163.20	
180x100	12.97	180	100	3	6	16.21	714.84	79.43	96.44	6.64	289.99	58.00	64.49	4.23	653.88	97.35	
	17.08	180	100	4	8	21.35	926.04	102.89	125.90	6.59	373.89	74.78	84.02	4.19	853.85	125.36	
	21.08	180	100	5	10	26.36	1124.2	124.91	154.03	6.53	451.77	90.35	102.60	4.14	1044.8	151.32	
	24.99	180	100	6	12	31.23	1309.6	145.51	180.85	6.48	523.83	104.77	120.24	4.10	1226.7	175.33	
	32.03	180	100	8	20	40.04	1592.5	176.95	226.91	6.31	634.57	126.91	151.22	3.98	1565.2	216.45	
	38.85	180	100	10	25	48.57	1848.3	205.36	270.03	6.17	731.20	146.24	179.77	3.88	1858.6	250.83	
200x50	11.53	200	50	3	6	14.41	633.24	63.32	83.70	6.63	69.24	27.69	30.54	2.19	213.83	49.74	
	15.16	200	50	4	8	18.95	815.49	81.55	108.84	6.56	87.38	34.95	39.33	2.15	273.70	62.32	
	18.68	200	50	5	10	23.36	983.8	98.38	132.63	6.49	103.29	41.32	47.46	2.10	328.0	73.18	
	22.11	200	50	6	12	27.63	1138.6	113.86	155.09	6.42	117.11	46.85	54.94	2.06	376.9	82.46	
	200x80	12.97	200	80	3	6	16.21	807.90	80.79	101.43	7.06	194.62	48.65	53.50	3.47	510.39	84.85
	17.08	200	80	4	8	21.35	1046.0	104.60	132.36	7.00	249.80	62.45	69.56	3.42	663.60	108.56	
200x100	21.08	200	100	5	10	26.36	1269.1	126.91	161.88	6.94	300.44	75.11	84.75	3.38	808.4	130.20	
	24.99	200	80	6	12	31.23	1477.4	147.74	190.01	6.88	346.75	86.69	99.09	3.33	944.8	149.89	
	32.03	200	80	8	20	40.04	1789.0	178.90	237.83	6.68	416.10	104.03	124.30	3.22	1191.8	182.52	
	13.93	200	100	3	6	17.41	924.33	92.43	113.25	7.29	318.23	63.65	70.31	4.28	754.28	108.36	
	18.36	200	100	4	8	22.95	1199.7	119.97	148.04	7.23	410.78	82.16	91.70	4.23	985.38	139.63	
	22.68	200	100	5	10	28.36	1459.3	145.93	181.38	7.17	496.94	99.39	112.10	4.19	1206.3	168.67	
200x100	26.91	200	100	6	12	33.63	1703.3	170.33	213.29	7.12	576.91	115.38	131.52	4.14	1417.0	195.57	
	34.59	200	100	8	20	43.24	2084.1	208.41	268.55	6.94	702.46	140.49	165.94	4.03	1810.7	241.98	
	42.05	200	100	10	25	52.57	2431.7	243.17	320.60	6.80	812.54	162.51	197.77	3.93	2154.1	281.02	

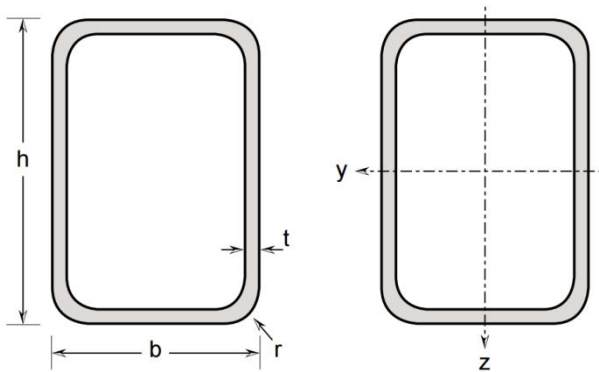


## Rectangular Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled

### Structural properties

Designation	G	Dimensions					Axis y-y					Axis z-z				
		h	b	t	r	A	$I_y$	$W_{ely}$	$W_{ply}$	$i_y$	$I_z$	$W_{elz}$	$W_{plz}$	$i_z$	$I_v$	$W_v$
	kg/m	mm	mm	mm	mm	mm <sup>2</sup> x 10 <sup>2</sup>	mm <sup>4</sup> x 10 <sup>4</sup>	mm <sup>3</sup> x 10 <sup>3</sup>	mm <sup>3</sup> x 10 <sup>3</sup>	mm x 10	mm <sup>4</sup> x 10 <sup>4</sup>	mm <sup>3</sup> x 10 <sup>3</sup>	mm <sup>3</sup> x 10 <sup>3</sup>	mm x 10	mm <sup>4</sup> x 10 <sup>4</sup>	mm <sup>3</sup> x 10 <sup>3</sup>
200x100	48.05	200	100	12	36	60.06	2534.8	253.48	360.52	6.50	849.80	169.96	225.83	3.76	2414.4	307.20
200x150	16.33	200	150	3	6	20.41	1215.4	121.54	142.80	7.72	784.82	104.64	117.58	6.20	1478.2	167.28
	21.56	200	150	4	8	26.95	1583.9	158.39	187.24	7.67	1021.0	136.14	154.07	6.16	1942.0	217.63
	26.68	200	150	5	10	33.36	1934.7	193.47	230.13	7.62	1245.0	166.00	189.24	6.11	2391.4	265.41
	31.71	200	150	6	12	39.63	2268.0	226.80	271.49	7.56	1457.1	194.28	223.10	6.06	2826.2	310.70
	40.99	200	150	8	20	51.24	2821.8	282.18	345.35	7.42	1810.7	241.43	284.04	5.94	3664.9	392.71
	50.05	200	150	10	25	62.57	3335.0	333.50	415.60	7.30	2134.4	284.59	341.68	5.84	4428.4	465.72
	57.65	200	150	12	36	72.06	3596.6	359.66	473.32	7.06	2303.7	307.16	390.97	5.65	5099.2	523.75
250x100	16.33	250	100	3	6	20.41	1605.6	128.45	160.52	8.87	388.82	77.76	84.86	4.36	1011.7	135.89
	21.56	250	100	4	8	26.95	2091.7	167.33	210.41	8.81	503.0	100.60	110.90	4.32	1322.5	175.31
	26.68	250	100	5	10	33.36	2553.8	204.30	258.52	8.75	609.9	121.97	135.85	4.28	1620.1	212.03
	31.71	250	100	6	12	39.63	2992.3	239.39	304.87	8.69	709.6	141.93	159.72	4.23	1904.5	246.16
	40.99	250	100	8	20	51.24	3705.4	296.43	386.66	8.50	872.2	174.43	202.74	4.13	2438.7	305.79
	50.05	250	100	10	25	62.57	4367.7	349.42	464.51	8.36	1015.9	203.17	242.77	4.03	2909.6	356.48
	57.65	250	100	12	36	72.06	4662.2	372.98	525.67	8.04	1083.6	216.71	278.63	3.88	3287.0	392.90
250x150	24.76	250	150	4	8	30.95	2696.9	215.75	259.61	9.33	1234.2	164.57	183.27	6.32	2664.7	273.21
	30.68	250	150	5	10	38.36	3304.2	264.33	319.77	9.28	1508.0	201.06	225.49	6.27	3284.5	333.58
	36.51	250	150	6	12	45.63	3885.6	310.85	378.07	9.23	1768.3	235.78	266.30	6.23	3885.8	390.98
	47.39	250	150	8	20	59.24	4877.1	390.17	483.46	9.07	2214.4	295.26	340.84	6.11	5050.4	495.81
	58.05	250	150	10	25	72.57	5808.6	464.68	584.51	8.95	2625.2	350.03	411.68	6.01	6120.7	589.88
	67.25	250	150	12	36	84.06	6363.0	509.04	668.47	8.70	2876.5	383.53	473.77	5.85	7088.5	667.32
300x100	24.76	300	100	4	8	30.95	3320.5	221.36	282.78	10.36	595.2	119.04	130.10	4.39	1667.9	210.99
	30.68	300	100	5	10	38.36	4065.2	271.01	348.16	10.29	722.8	144.55	159.60	4.34	2043.8	255.39
	36.51	300	100	6	12	45.63	4776.8	318.45	411.45	10.23	842.4	168.47	187.92	4.30	2403.5	296.76
	47.39	300	100	8	20	59.24	5967.3	397.82	524.76	10.04	1041.9	208.37	239.54	4.19	3080.3	369.60
	58.05	300	100	10	25	72.57	7085.8	472.39	633.43	9.88	1219.2	243.84	287.77	4.10	3681.0	431.95

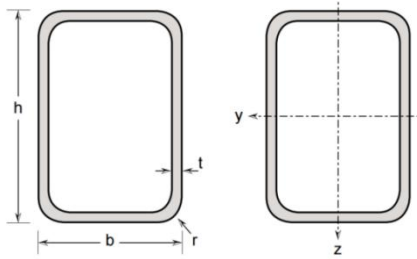


### Rectangular Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled

### Structural properties

Designation		Dimensions					Axis y-y					Axis z-z				
	G kg/m	h mm	b mm	t mm	r mm	A mm <sup>2</sup> x10 <sup>2</sup>	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>ely</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>ply</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>elz</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>plz</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10	I <sub>v</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>v</sub> mm <sup>3</sup> x10 <sup>3</sup>
300x100	67.25	300	100	12	36	84.06	7690.4	512.69	720.82	9.56	1317.3	263.46	331.43	3.96	4177.5	478.61
300x150	27.96	300	150	4	8	34.95	4196.7	279.78	341.98	10.96	1447.5	192.99	212.47	6.44	3417.1	328.79
	34.68	300	150	5	10	43.36	5153.1	343.54	421.91	10.90	1770.9	236.12	261.74	6.39	4214.3	401.76
	41.31	300	150	6	12	51.63	6073.5	404.90	499.65	10.85	2079.6	277.28	309.50	6.35	4988.5	471.26
	53.79	300	150	8	20	67.24	7673.0	511.53	641.56	10.68	2618.1	349.08	397.64	6.24	6490.6	598.91
	66.05	300	150	10	25	82.57	9189.2	612.61	778.43	10.55	3116.1	415.48	481.68	6.14	7878.6	714.04
	76.85	300	150	12	36	96.06	10180.1	678.68	893.62	10.29	3449.2	459.90	556.57	5.99	9153.1	810.89
300x200	38.68	300	200	5	10	48.36	6241.1	416.07	495.66	11.36	3360.9	336.09	376.38	8.34	6835.8	548.66
	46.11	300	200	6	12	57.63	7370.2	491.35	587.85	11.31	3962.2	396.22	446.09	8.29	8115.2	646.65
	60.19	300	200	8	20	75.24	9378.7	625.25	758.36	11.16	5034.9	503.49	575.75	8.18	10627	830.20
	74.05	300	200	10	25	92.57	11292.5	752.83	923.43	11.05	6045.0	604.50	700.60	8.08	12987	999.71
	86.45	300	200	12	36	108.06	12669.9	844.66	1066.4	10.83	6781.9	678.19	811.72	7.92	15236	1149.1
350x150	46.11	350	150	6	12	57.63	8906.9	508.96	636.23	12.43	2390.8	318.77	352.70	6.44	6120.8	551.54
	60.19	350	150	8	20	75.24	11309.4	646.25	819.67	12.26	3021.8	402.91	454.44	6.34	7967.9	702.01
	74.05	350	150	10	25	92.57	13601.9	777.25	997.35	12.12	3606.9	480.92	551.68	6.24	9681.0	838.20
	86.45	350	150	12	36	108.06	15198.0	868.46	1148.8	11.86	4022.0	536.27	639.37	6.10	11268	954.46
350x250	55.71	350	250	6	12	69.63	12457.3	711.85	842.63	13.38	7458.4	596.68	670.87	10.35	14554	962.44
	72.99	350	250	8	20	91.24	15988.8	913.65	1093.3	13.24	9564.0	765.12	870.66	10.24	19136	1244.8
	90.05	350	250	10	25	112.57	19383.5	1107.6	1337.3	13.12	11571.9	925.75	1064.5	10.14	23500	1510.0
	105.65	350	250	12	36	132.06	22055.5	1260.3	1554.4	12.92	13166.0	1053.3	1239.7	9.98	27749	1751.7
400x200	55.71	400	200	6	12	69.63	14789.4	739.47	906.01	14.57	5091.6	509.16	562.49	8.55	12069	866.87
	72.99	400	200	8	20	91.24	18960.0	948.00	1174.6	14.42	6510.3	651.03	729.35	8.45	15820	1115.6
	90.05	400	200	10	25	112.57	22975.0	1148.7	1436.3	14.29	7851.7	785.17	890.60	8.35	19368	1346.6
	105.65	400	200	12	36	132.06	26084.4	1304.2	1666.7	14.05	8905.4	890.54	1037.3	8.21	22782	1553.9



## Rectangular Hollow Sections Stainless Steel

Cold formed and welded acc. to EN 10219-2; grade accord. to EN 10088. Surface condition: external weld bead removed, brushed / blasted and pickled

### Structural properties

Designation		Dimensions					Axis y-y				Axis z-z					
	G kg/m	h mm	b mm	t mm	r mm	A mm <sup>2</sup> x10 <sup>2</sup>	I <sub>y</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>ely</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>ply</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>y</sub> mmx10	I <sub>z</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>elz</sub> mm <sup>3</sup> x10 <sup>3</sup>	W <sub>plz</sub> mm <sup>3</sup> x10 <sup>3</sup>	i <sub>z</sub> mmx10	I <sub>v</sub> mm <sup>4</sup> x10 <sup>4</sup>	W <sub>v</sub> mm <sup>3</sup> x10 <sup>3</sup>
400x300	85.79	400	300	8	20	107.24	25107.4	1255.4	1488.2	15.30	16201.5	1080.1	1225.6	12.29	31179	1739.6
	106.05	400	300	10	25	132.57	30581.6	1529.1	1826.3	15.19	19705.8	1313.7	1503.4	12.19	38407	2120.5
	124.85	400	300	12	36	156.06	35119.9	1756.0	2132.3	15.00	22628.9	1508.6	1757.6	12.04	45527	2474.6
500x200	85.79	500	200	8	20	107.24	33103.4	1324.1	1670.8	17.57	7985.8	798.6	883.0	8.63	21225	1401.1
	106.05	500	200	10	25	132.57	40285.7	1611.4	2049.1	17.43	9658.4	965.8	1080.6	8.54	26005	1693.5
500x200	124.85	500	200	12	36	156.06	46101.9	1844.1	2387.0	17.19	11028.9	1102.9	1262.9	8.41	30620	1958.7
500x300	98.59	500	300	8	20	123.24	42786.9	1711.5	2064.4	18.63	19612.9	1307.5	1459.2	12.62	42767	2184.2
	122.05	500	300	10	25	152.57	52292.4	2091.7	2539.1	18.51	23912.5	1594.2	1793.4	12.52	52736	2665.8
	144.05	500	300	12	36	180.06	60393.4	2415.7	2972.6	18.31	27608.5	1840.6	2103.2	12.38	62581	3116.8



# ROUND BARS



Size		Weight		Size		Weight	
Inches(mm)	Pound/ft.	kg/m	inches(mm)	pound/ft.	kg/m		
1/8 (3.18)	0.042	0.063	3-5/8(92.08)	35.090	52.220		
3/16 (4.76)	0.094	0.140	3-3/4(95.25)	37.550	55.881		
1/4 (6.35)	0.167	0.249	3-7/8(98.43)	40.100	59.675		
5/16 (7.94)	0.261	0.388	<b>4(101.60)</b>	42.730	63.589		
3/8 (9.53)	0.376	0.560	4-1/8(104.78)	45.440	67.622		
7/16 (11.11)	0.511	0.760	4-1/4(107.95)	48.230	71.774		
1/2 (12.70)	0.668	0.994	4-3/8(111.13)	51.110	76.060		
9/16 (14.29)	0.845	1.257	4-1/2(114.30)	54.080	80.480		
5/8 (15.88)	1.043	1.552	4-5/8(117.48)	57.120	85.004		
11/16 (17.46)	1.262	1.878	4-3/4(120.65)	60.250	89.662		
3/4 (19.05)	1.502	2.235	<b>5(127.00)</b>	66.760	99.350		
13/16 (20.64)	1.763	2.624	5-1/4(133.35)	73.600	109.529		
7/8 (22.23)	2.044	3.042	5-1/2(139.70)	80.780	120.214		
15/16 (23.81)	2.347	3.493	5-3/4(146.05)	88.290	131.390		
<b>1 (25.40)</b>	2.670	3.973	<b>6(152.40)</b>	96.130	143.057		
1-1/8 (28.58)	3.379	5.029	6-1/4(158.75)	104.310	155.230		
1-3/16 (30.16)	3.766	5.604	6-1/2(165.10)	112.820	167.895		
1-1/4 (31.75)	4.172	6.209	6-3/4(171.45)	121.670	181.065		
1-3/8 (34.93)	5.049	7.514	<b>7(177.80)</b>	130.850	194.726		
1-1/2 (38.1)	6.008	8.941	7-1/4(184.15)	140.360	208.879		
1-5/8 (41.28)	7.051	10.493	7-1/2(190.50)	150.210	223.537		
1-3/4 (44.45)	8.178	12.170	7-3/4(196.85)	160.390	238.687		
1-15/16 (49.21)	10.020	14.911	<b>8(203.20)</b>	170.900	254.327		
<b>2 (50.80)</b>	10.680	15.894	8-1/4(209.55)	181.800	270.548		
2-1/8 (53.98)	12.060	17.947	8-1/2(215.90)	192.900	287.067		
2-1/4 (57.15)	13.520	20.120	8-3/4(222.25)	204.500	304.330		
2-3/8 (59.69)	15.060	22.412	<b>9(228.60)</b>	216.300	321.890		
2-1/2 (63.50)	16.690	24.837	9-1/4(234.95)	228.500	340.045		
2-5/8 (66.68)	18.400	27.382	9-1/2(241.30)	241.000	358.648		
2-1/4 (57.15)	20.190	30.046	9-3/4(247.65)	253.900	377.845		
2-7/8 (73.03)	22.070	32.844	<b>10(254.00)</b>	267.000	397.340		
<b>3 (76.20)</b>	24.030	35.761	10-1/4(260.35)	280.600	417.579		
3-1/8 (79.38)	26.080	38.811	10-1/2(266.70)	294.400	438.115		
3-1/4 (82.55)	28.210	41.981	10-3/4(273.05)	308.600	459.247		
3-3/8 (79.38)	30.420	45.270	<b>11(279.40)</b>	323.100	480.826		
3-1/2 (88.9)	32.710	48.678	11-1/2(292.10)	353.200	525.620		

Size		Weight		Size		Weight in Pounds	
Inches(mm)	Pound/ft.	kg/m		Inches(mm)	Pound/ft.	kg/m	
<b>12(304.8)</b>	384.500	572.199		<b>16(406.40)</b>	683.600	1017.309	
12-1/2(317.5)	417.200	620.862		16-1/2(419.10)	727.200	1082.193	
<b>13(330.2)</b>	451.300	671.608		<b>17(431.80)</b>	771.700	1148.416	
13-1/2(342.9)	486.700	724.289		17-1/2(444.50)	829.600	1234.581	
<b>14(355.6)</b>	523.400	778.905		<b>18(457.20)</b>	865.200	1287.559	
14-1/2(368.3)	561.400	835.455		18-1/2(469.90)	913.900	1360.033	
<b>15(381)</b>	600.800	894.089		<b>19(482.60)</b>	964.000	1434.590	
15-1/2(393.7)	641.600	954.806		<b>20(508.00)</b>	1068.000	1589.359	

# SQUARE BARS



Size	Weight		Size	Weight	
	Pound/ft.	kg/m		(inches)	Per ft.
inches(mm)			(inches)		
1/4(6.35)	0.21	0.32	1-3/4(44.45)	10.41	15.49
5/16(7.93)	0.33	0.49	1-7/8(47.62)	11.95	17.78
3/8(9.525)	0.47	0.71	<b>2(50.80)</b>	13.60	20.24
7/16(11.11)	0.65	0.97	2-1/4(57.15)	17.21	25.61
1/2(12.70)	0.85	1.27	2-1/2(63.5)	21.25	31.62
9/16(14.28)	1.08	1.61	2-3/4(69.85)	25.71	38.26
5/8(15.87)	1.33	1.98			
11/16(17.46)	1.61	2.40	<b>3(76.2)</b>	30.60	45.54
3/4(19.05)	1.91	2.84	3-1/4(82.55)	35.91	53.44
13/16(20.63)	2.25	3.35	3-1/2(88.90)	41.65	61.98
7/8(22.22)	2.60	3.87	3-3/4(95.25)	47.81	71.15
<b>1(25.4)</b>	3.40	5.06	<b>4(101.60)</b>	54.40	80.96
1-1/8(28.57)	4.30	6.40	4-1/2(114.30)	68.85	102.46
1-1/4(31.75)	5.31	7.90	<b>5(127.00)</b>	85.00	126.49
1-3/8(34.92)	6.43	9.57			
1-1/2(38.10)	7.65	11.38	<b>6(152.40)</b>	122.40	182.15
1-5/8(41.27)	8.98	13.36			

尺寸 (英尺) Size (inches)		重量 (weight) Pound/ft. kg/m		尺寸 (英尺) Size (inches)		重量 (weight) Pound/ft. kg/m	
1/8x	1/4	0.106	0.16	1/4x	3/4	0.64	0.95
	3/8	0.159	0.24		7/8	0.74	1.11
	1/2	0.213	0.32		1	0.85	1.27
	5/8	0.266	0.40		1 1/4	1.06	1.58
	3/4	0.319	0.48		1 1/2	1.28	1.90
	7/8	0.372	0.55		1 3/4	1.49	2.22
	1	0.425	0.63		2	1.70	2.53
	1 1/8	0.478	0.71		2 1/4	1.91	2.85
	1 1/4	0.531	0.79		2 1/2	2.13	3.17
	1 1/2	0.638	0.95		2 3/4	2.34	3.48
	1 3/4	0.744	1.11		3	2.55	3.80
	2	0.85	1.27		3 1/2	2.98	4.43
	2 1/4	0.956	1.42		4	3.40	5.07
	2 1/2	1.063	1.58		4 1/2	3.83	5.70
	3	1.275	1.90		5	4.25	6.33
	3 1/2	1.488	2.22		6	5.10	7.60
	4	1.7	2.53		8	6.80	10.13
	5	2.125	3.17		10	8.50	12.67
	6	2.55	3.80		12	10.20	15.20
3/16x	5/16	0.199	0.30	5/16x	3/8	0.40	0.59
	3/8	0.239	0.36		1/2	0.53	0.79
	1/2	0.319	0.48		3/4	0.80	1.19
	5/8	0.398	0.59		7/8	0.93	1.39
	3/4	0.478	0.71		1	1.06	1.58
	7/8	0.558	0.83		1 1/4	1.33	1.98
	1	0.638	0.95		1 1/2	1.59	2.38
	1 1/4	0.797	1.19		1 3/4	1.86	2.77

尺寸 (英尺) Size (inches)		重量 (weight) Pound/ft. kg/m		尺寸 (英尺) Size (inches)		重量 (weight) Pound/ft. kg/m	
	1 1/2	0.956	1.42		2	2.13	3.17
	1 3/4	1.116	1.66		2 1/4	2.39	3.56
	2	1.275	1.90		2 1/2	2.66	3.96
	2 1/4	1.434	2.14		3	3.19	4.75
	2 1/2	1.594	2.38		3 1/2	3.72	5.54
	3	1.913	2.85		4	4.25	6.33
	3 1/2	2.23	3.32		5	5.31	7.92
	4	2.55	3.80		6	6.38	9.50
	5	3.188	4.75		8	8.50	12.67
	6	3.825	5.70				
1/4x	5/16	0.266		3/8x	1/2	0.638	
	3/8	0.319			5/8	0.797	
	1/2	0.425			3/4	0.956	
	5/8	0.531			7/8	1.116	
					1	1.275	
3/8x	1 1/4	1.59	2.38	5/8x	1 1/2	3.19	4.75
	1 3/8	1.75	2.61		1 3/4	3.72	5.54
	1 1/2	1.91	2.85		2	4.25	6.33
	1 3/4	2.23	3.32		2 1/4	4.78	7.12
	2	2.55	3.80		2 1/2	5.31	7.92
	2 1/4	2.87	4.27		2 3/4	5.84	8.71
	2 1/2	3.19	4.75		3	6.38	9.50
	3	3.83	5.70		3 1/2	7.44	11.08
	3 1/2	4.46	6.65		3 3/4	7.97	11.87
	4	5.10	7.60		4	8.50	12.67
	4 1/2	5.74	8.55		5	10.63	15.83
	5	6.38	9.50		5 1/2	11.69	17.42
	6	7.65	11.40		6	12.75	19.00
	8	10.20	15.20		8	17.00	25.33
	10	12.75	19.00		10	21.25	31.66
	12	15.30	22.80		12	25.50	38.00
1/2x	5/8	1.06	1.58	3/4x	7/8	2.23	3.32

尺寸 (英尺) Size (inches)	重量 (weight) Pound/ft. kg/m			尺寸 (英尺) Size (inches)	重量 (weight) Pound/ft. kg/m		
	Pound/ft.	kg/m			Pound/ft.	kg/m	
3/4	1.275	1.90		1	2.55	3.80	
7/8	1.49	2.22		1 1/8	2.87	4.27	
1	1.70	2.53		1 1/4	3.19	4.75	
1 1/8	1.91	2.85		1 1/2	3.83	5.70	
1 1/4	2.13	3.17		1 3/4	4.46	6.65	
1 1/2	2.55	3.80		2	5.10	7.60	
1 3/4	2.98	4.43		2 1/4	5.74	8.55	
2	3.40	5.07		2 1/2	6.38	9.50	
2 1/4	3.83	5.70		2 3/4	7.01	10.45	
2 1/2	4.25	6.33		3	7.65	11.40	
3	5.10	7.60		3 1/2	8.93	13.30	
3 1/4	5.53	8.23		4	10.20	15.20	
3 1/2	5.95	8.87		4 1/2	11.48	17.10	
4	6.80	10.13		5	12.75	19.00	
4 1/2	7.65	11.40		6	15.30	22.80	
5	8.50	12.67		6 1/2	16.58	24.70	
6	10.20	15.20		8	20.40	30.40	
8	13.60	20.26		10	25.50	38.00	
10	17.00	25.33		12	30.60	45.59	
12	20.40	30.40					
5/8x	3/4	1.59	2.38	7/8x	1	2.98	4.43
	7/8	1.86	2.77		1 1/2	4.46	6.65
	1	2.13	3.17		2	5.95	8.87
	1 1/4	2.66	3.96		3	8.93	13.30
					4	11.90	17.73

尺寸 (英尺) Size (inches)		重量 (weight) Pound/ft. kg/m		尺寸 (英尺) Size (inches)		重量 (weight) Pound/ft. kg/m		
7/8x	5	14.88	22.16	1 3/4 x	2	11.90	17.73	
	6	17.85	26.60		2 1/2	14.88	22.16	
					3	17.85	26.60	
1x	1 1/4	4.25	6.33		3 1/2	20.83	31.03	
	1 3/8	4.68	6.97		4	23.80	35.46	
	1 1/2	5.10	7.60		5 1/2	32.73	48.76	
	1 3/4	5.95	8.87		6	35.70	53.19	
	2	6.80	10.13					
	2 1/4	7.65	11.40		2x	2 1/2	17.00	25.33
	2 1/2	8.50	12.67		2 3/4	18.70	27.86	
	3	10.20	15.20		3	20.40	30.40	
					3 1/2	23.80	35.46	
1x	3 1/2	11.90	17.73		3 3/4	25.50	38.00	
	4	13.60	20.26		4	27.20	40.53	
	4 1/2	15.30	22.80		5	34.00	50.66	
	5	17.00	25.33	6	40.80	60.79		
	5 1/2	18.70	27.86	8	54.40	81.06		
	6	20.40	30.40	10	68.00	101.32		
	8	27.20	40.53	12	81.60	121.58		
	10	34.00	50.66					
	11	37.40	55.73	2 1/2x	3	25.50	38.00	
	12	40.80	60.79	4	34.00	50.66		
				5	42.50	63.33		
1 1/4 x	1 1/2	6.38	9.50	6	51.00	75.99		
	1 3/4	7.44	11.08					
	2	8.50	12.67	3x	3 1/2	35.70	53.19	
	2 1/4	9.56	14.25	4	40.80	60.79		
	2 1/2	10.63	15.83	6	61.20	91.19		

尺寸 (英尺) Size (inches)		重量 (weight) Pound/ft. kg/m	
	3	12.75	19.00
	3 1/2	14.88	22.16
	4	17.00	25.33
	4 1/2	19.13	28.50
	5	21.25	31.66
	5 1/2	23.38	34.83
	6	25.50	38.00
	8	34.00	50.66
	10	42.50	63.33
1 1/2x	1 3/4	8.93	13.30
	2	10.20	15.20
	2 1/2	12.75	19.00
	3	15.30	22.80
	3 1/2	17.85	26.60
	3 3/4	19.13	28.50
	4	20.40	30.40
	5	25.50	38.00
	6	30.60	45.59
	8	40.80	60.79
	8 1/2	43.35	64.59
	10	51.00	75.99
	12	61.2	91.19

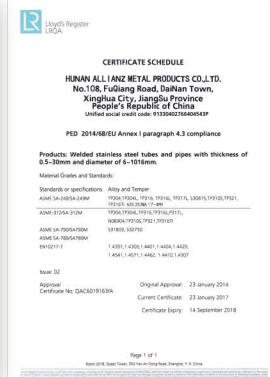
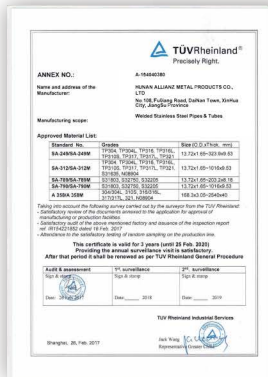


# 订货指南 Ordering Guide

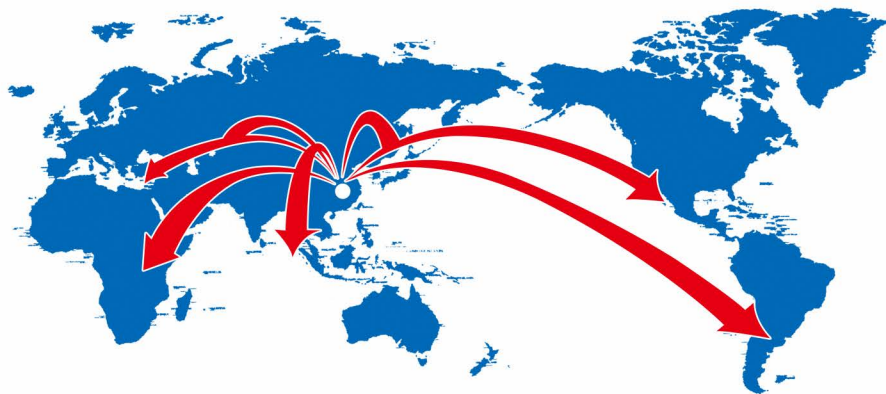
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- Ordering guide: Please provide the following information when ordering.

1	Product type: 产品类型:
2	数量/重量/标准/牌号/交货日期 Quantity/weight/standard/grade/date of delivery
3	产品尺寸: Product size:
4	表面处理: Surface finish:
5	应用或零部件名称: Name of application or part:
6	包装要求: Package requirements:
7	备注:如有特别需求请联系我们。 Note: please contact us if you have any special requirements.

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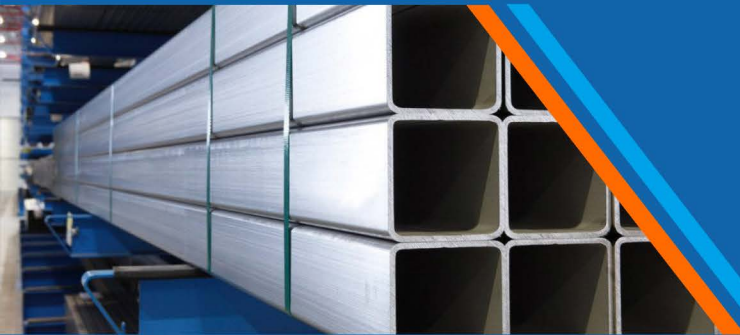
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