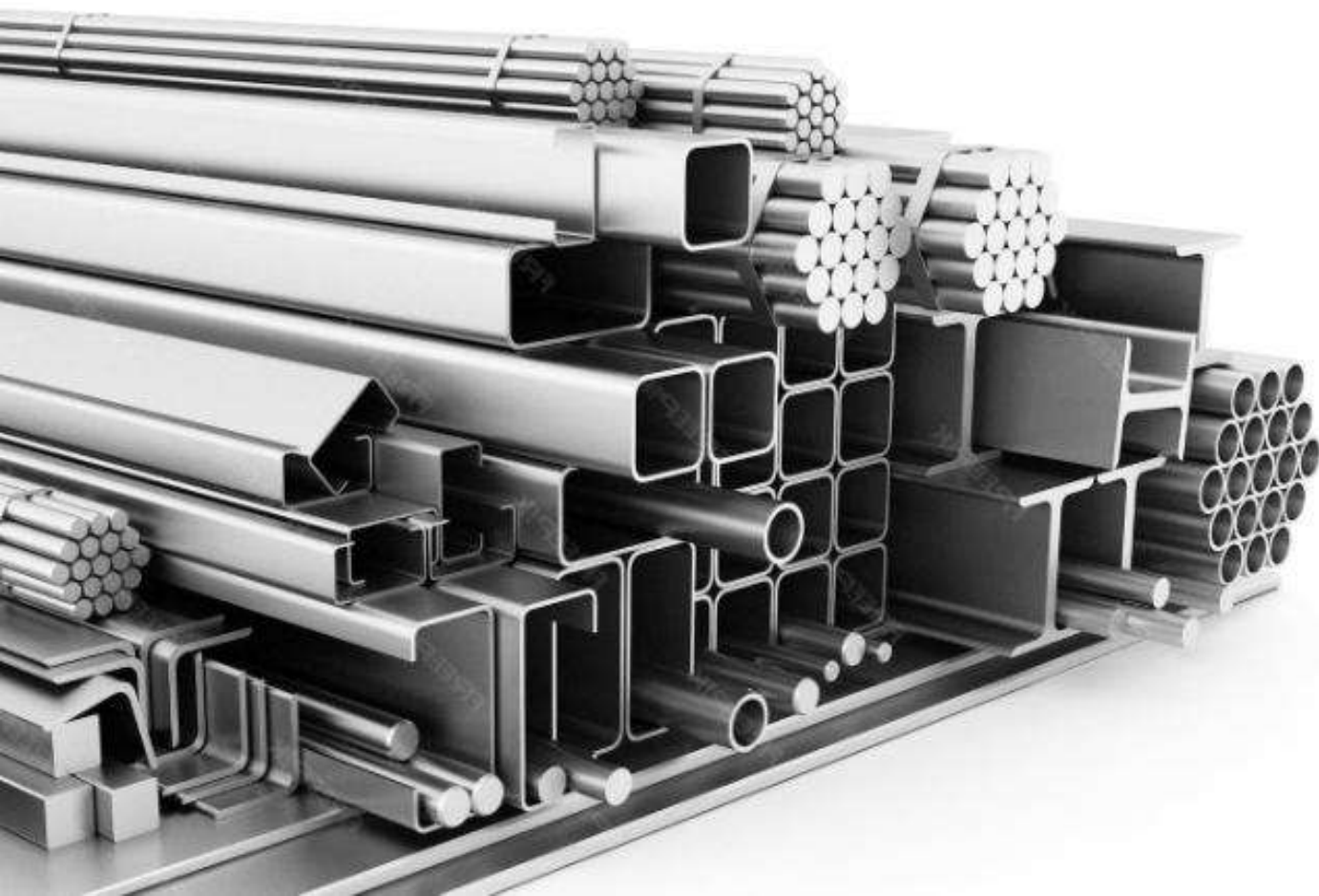


 We are ADNOC  
Pre-qualified supplier  
أدنوك  
ADNOC ID : 20037690



# GLOBAL STEEL INDUSTRIES

## COMPLETE STRUCTURAL SOLUTIONS





# Introduction

Global Steel Industries is dedicated to establishing a strong presence in the high-end segments of the oil, gas, petrochemical, and energy industries. We distinguish ourselves through a commitment to quality, technical competence, and organizational agility tailored to meet complex customer requirements. Ongoing investments in market intelligence, strategic manufacturer relationships, and a comprehensive stock portfolio ensure we consistently deliver reliable and customized piping solutions.



# SAFETY FIRST

At Global Steel, safety is not an option – it is our core value. Every project we deliver reflects our belief that a safe job is a successful job. We recognize that incidents mainly occur due to human error, rushing, or poor working conditions. That's why we focus on planning, training, and prevention to eliminate risks before they arise.

We also understand that our people are our greatest strength. Protecting our team members, clients, and partners is at the heart of everything we do. We are proud of our safety record and remain committed to making every workplace safer, healthier, and more productive.

## **Our Commitment to Safety**

- Global Steel complies fully with OSHA regulations and other international safety standards.
- We maintain an internal proprietary safety program tailored to our industry.
- We constantly review and improve our safety practices to align with the latest global standards.
- Our leadership ensures that safety, health, and environmental responsibility are integrated into every stage of our operations.

# Importance of HSE in Construction and Manufacturing



- 1 Risk Mitigation**  
Identifying hazards reduces potential accidents and injuries.
- 2 Regulatory Compliance**  
Ensures adherence to local and international safety standards.
- 3 Employee Well-being**  
Promotes a safe work environment for all workers.
- 4 Cost Efficiency**  
Reduces costs associated with accidents and downtime.

# Personal Protective Equipment (PPE)



Mandatory use of helmets, safety shoes & gloves

Eye & face protection during cutting, grinding & machining

Hearing protection in high-noise areas

Heat-resistant PPE for forging and heat treatment

PPE inspection and replacement on a regular basis

# About us

- Founded with a vision to become a reliable steel solutions provider, **Global Steel Industries** is engaged in the manufacturing, processing, and supply of a wide range of steel products for industrial, construction, and energy sector applications. Located in **Bhiwandi, Maharashtra, Mumbai India**, we are a leading manufacturer and supplier across **Asia and the Middle East, including the UAE**, with more than **20 years of industry experience**. Our portfolio includes structural steel profiles, plates, pipes, and round bars, manufactured from internationally recognized grades such as ASTM A36, EN S275JR, and EN S355J2, ensuring suitability for general construction, heavy structural works, and high-strength applications.
- With an annual inventory exceeding 20,000 – 30,000 tons, we maintain a stable and efficient supply chain capable of supporting projects of varying scale and complexity. Our strong production capacity, combined with systematic quality control and efficient logistics management, enables us to deliver reliable materials with consistent performance and timely schedules.
- Beyond standard supply, Global Steel Industries provides value-added and deep processing services including cutting, machining, heat treatment, and customized fabrication tailored to project-specific requirements. This integrated capability allows us to serve as a comprehensive one-stop steel procurement partner for our clients.
- Guided by our “Quality First” principle, we continuously enhance our technical capabilities, operational efficiency, and quality management systems. Looking ahead, we remain committed to innovation, cost-effective manufacturing, and sustainable growth, delivering dependable structural steel solutions to customers across regional and international markets.



**GLOBAL STEEL INDUSTRIES**

# Our Location



## GLOBAL STEEL INDUSTRIES

Shivam Industrial Complex, Kharbavroad,  
Bhiwandi, Thane (Mumbai) Maharashtra –  
421302



**Our strategic location enables efficient global supply,  
and we are a leading supplier across Asia and the Middle East, including the UAE**

# Our Company

## Vision & **Mission**

To be a trusted global leader in the manufacturing and supply of premium structural steel solutions, establishing a strong presence in the construction and energy sectors through superior quality, engineering excellence, and a customer-focused approach.

1

To manufacture and deliver high-performance structural steel products that meet the demanding requirements of complex industrial and infrastructure applications.

2

To build long-term strategic partnerships by consistently providing reliable, high-quality, and customized solutions.

3

we continuously monitor the wide ranging and well-balanced stock assortment from leading brands and the design and supply of customized products

# Manufacturing Facility Overview

## Product Capacity

- 20,000 – 30,000 Ton/ Year

## Steel Grades International Standards

EN  
European

JIS  
Japanese

ASTM  
American

IS  
Indian



We are ADNOC  
Pre-qualified supplier

ID : 20037690



## Our Commitment to Quality....

### ✓ **Strict Quality Management System**

– Ensuring compliance with global industry standards.

### ✓ **Rigorous Inspection & Testing**

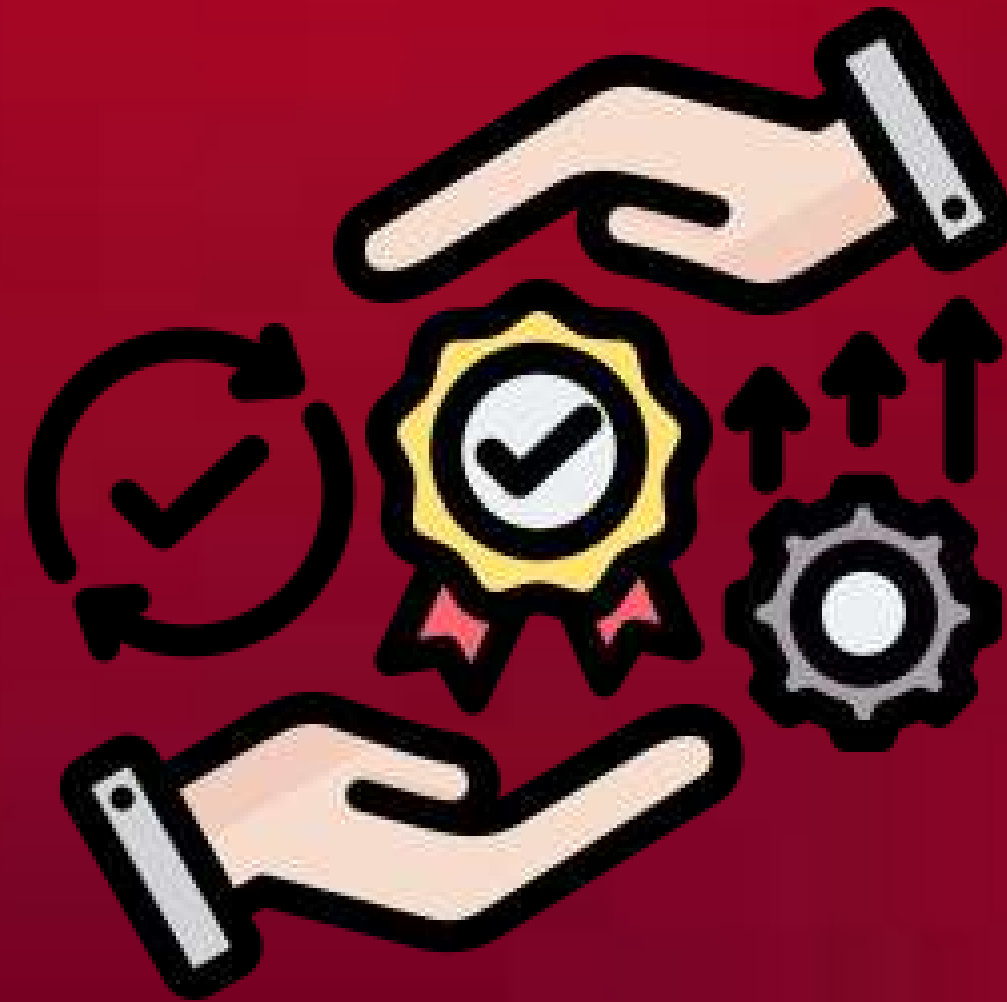
– Every flange and fitting undergoes thorough quality checks.

### ✓ **Certified Quality Control Team**

– Guaranteeing accurate and reliable documentation.

### ✓ **Uncompromising Quality Commitment**

– Delivering only the best products to our customers.



#### **Management System**

**ISO 9001: 2015**

**ISO 45001: 2018**

**ISO 14001: 2015**



# Wide & Vast Range Of **Products**

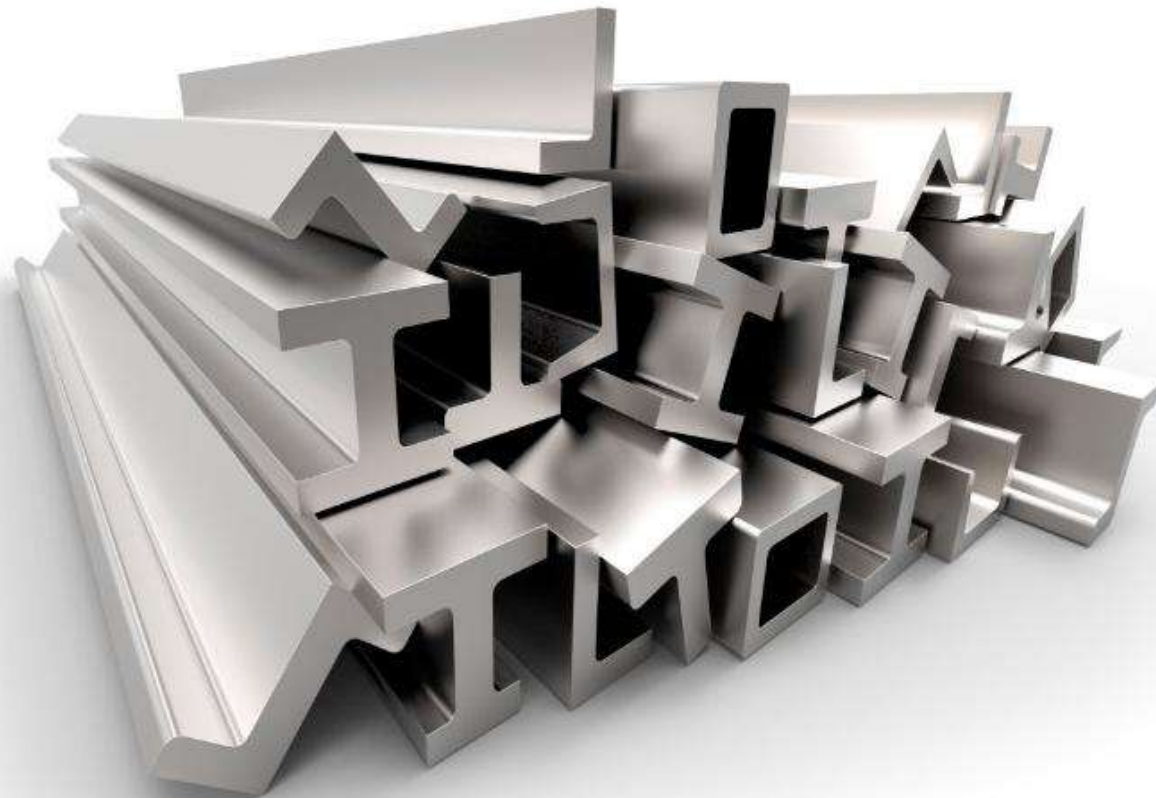
- **Structural Materials**  
Structural Steel Profiles : **I-Beam / H-Beam, Channels, Sections**, Flat Bars, Rods, Angles etc.
- **Hollow steel sections**  
Round, Sq. Tubes & Rectangular tubes
- **Sheets & Plates – Ferrous**  
Carbon Steel Plates – Sour Service  
Carbon Steel Plates – Non-Sour Service
- **Sheets & Plates – Non-Ferrous**  
Non-Ferrous Sheets and Plates



# STRUCTURAL MATERIALS

## TYPE:

- I-Beam / H-Beam
- Channel (C-Shaped)
- Angle (L-Shaped – Equal & Unequal)
- Bearing Pile (H-Shaped)
- Hollow Steel Sections (Square / Rectangular / Circular)

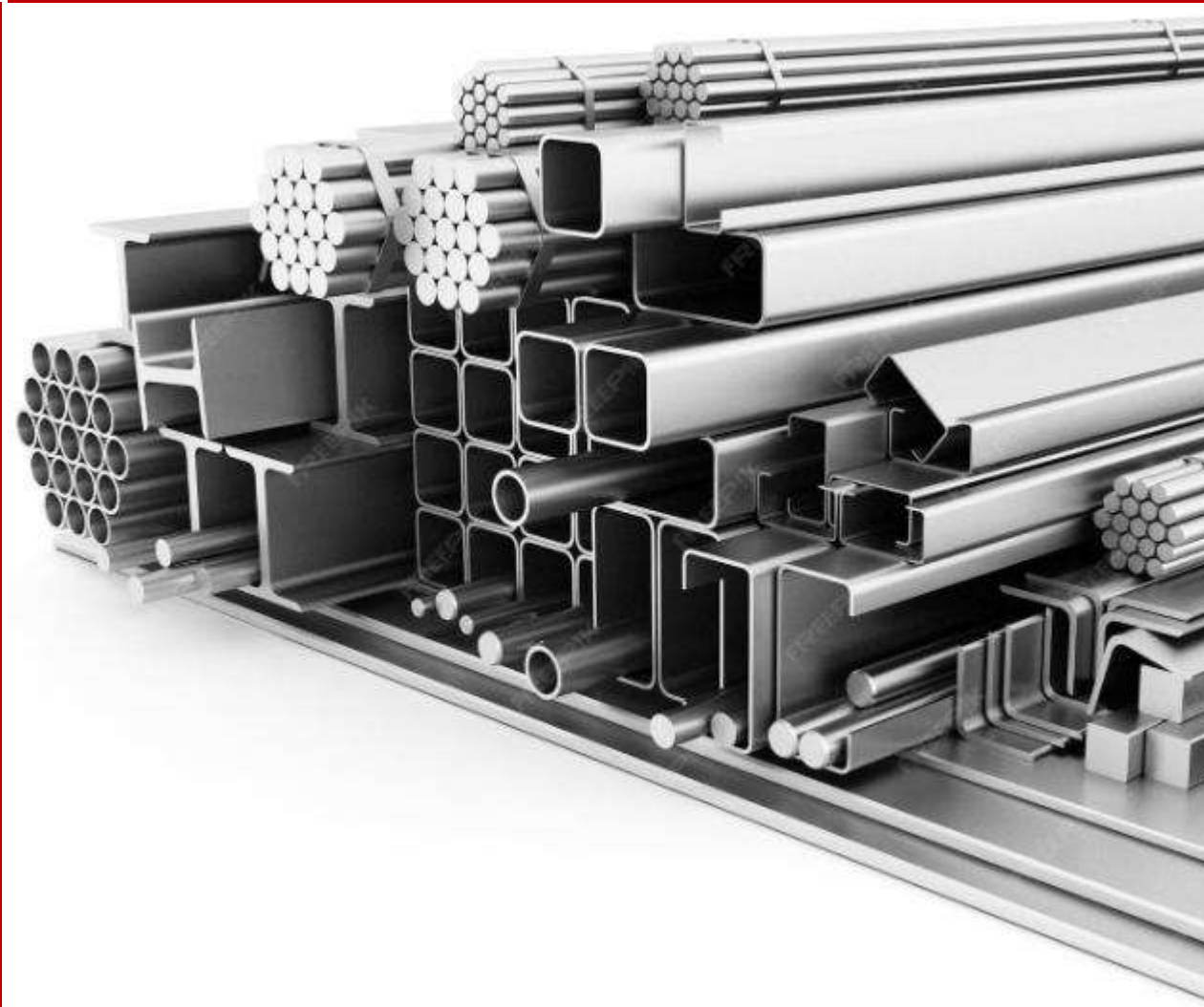


## SIZES:

- Depth / Width: 12mm to 150 mm
- Length: 6 & 12 meters (Standard)
- Custom cut lengths available on request

**THICKNESS:** 0.9 mm to 8 mm (Depending on section type and standard)

**STANDARD:** ASTM | EN | DIN | BIS



## GRADE:

- Carbon Steel
- Low Temperature Carbon Steel
- Stainless Steel
- Duplex Stainless Steel
- Alloy Steel, etc.

## APPLICATION:

- Building & Infrastructure Projects
- Oil & Gas Structures • Power Plants & Industrial Facilities
- Offshore & Marine Structures

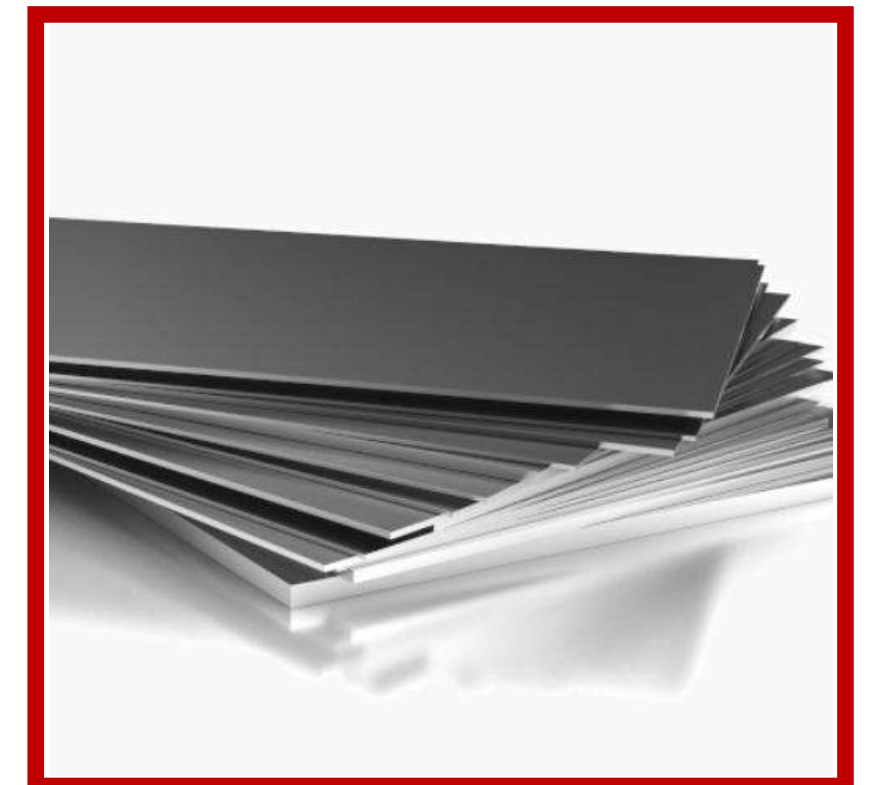


## Sheets & Plates – Ferrous

- **Size:** Standard & Cut-to-Size (as per customer requirement)
- **Thickness:** 01mm to 60.00mm
- **Standard:** API | ASTM | DIN | EN
- **Material grade:** Carbon Steel (ASTM A36, A516, EN S275JR, S355J2)  
Low Temperature Carbon Steel, Alloy Steel, Stainless Steel (200 / 300 / 400 Series)
- **Applications:** Structural Fabrication, Pressure Vessels, Tanks, Industrial and Energy Sector Projects

## Sheets & Plates – Non-Ferrous

- **Size:** Standard & Cut-to-Size (as per customer requirement)
- **Thickness:** 01mm to 60.00mm
- **Standard:** API | ASTM | DIN | EN
- **Material grade:** Aluminum & Aluminum alloys  
Copper & Copper Alloys (Brass, Bronze), Nickel & Nickel Alloys  
Titanium & Titanium Alloys
- **Applications:** Chemical Processing, Marine, Power & Energy, Heat Exchangers, Corrosion-resistant Applications



# Manufacturing Facility Overview – GSI Stock

Stock - Steel Profiles and Hollow Sections



Stock - Steel Plates and Structural Beams



Stock – Structural Tubes and Round Bars



# Supply Chain Network & Strategic Sourcing

- We maintain a **global network of qualified raw material providers**, ensuring flexibility and security of supply for all grades and specifications.
- Every supplier is carefully evaluated through **strict due diligence**, with selection based on their proven ability to deliver the right material on time and in compliance with standards.
- Our **quality team conducts regular overseas assessments and audits** to verify material quality, production capability, and long-term reliability.
- Through this rigorous approach, we have secured **strategic agreements with trusted raw material partners worldwide**, enabling us to guarantee both **availability and consistency** for our clients.
- This network allows Global Steel to offer **faster lead times, cost efficiency, and reliable delivery**, strengthening our position as a **dependable UAE manufacturing partner**.



# MAJOR END USERS SERVED THROUGH EPC COMPANIES



## Benefits of Choosing GSI

### Stock Availability

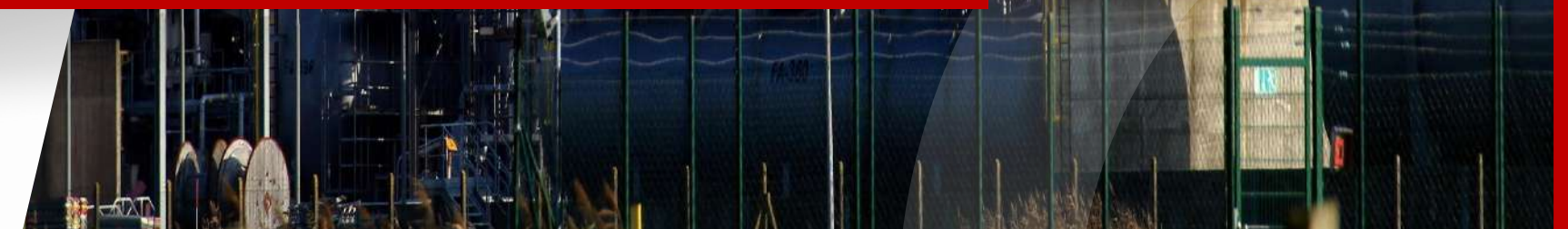
We manufacture a comprehensive range of structural materials in various sizes and thicknesses, produced in accordance with international standards to serve construction, industrial, and energy sector applications.

### Staff Expertise

We don't employ order takers; we employ problem solvers. Our technical sales team is the most experienced in the industry and they have deep understanding of our products and how they are used.

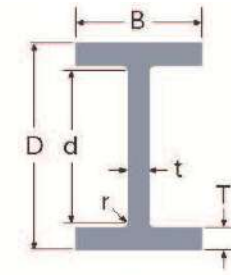
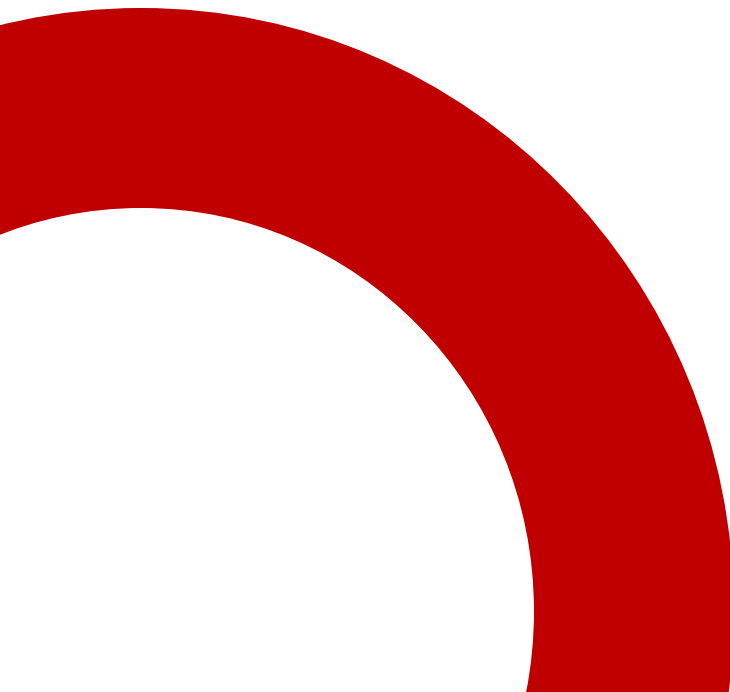
### Service Commitment

We put the same priority on each job as you do. We value our client relationships and empower our staff to use their initiative. Whether it's on phone or in person, we never say no to a request or a challenge.



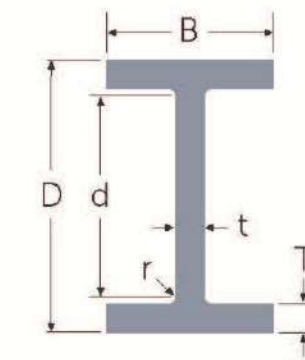


# UNIVERSAL BEAMS (UB) SIZE CHART



Universal beams (UB) sizes

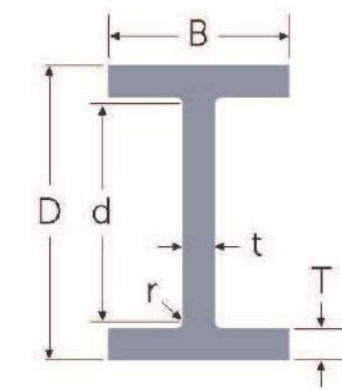
Designation  Serial size	Mass per metre  kg/m	Depth of section  D mm	Width of section  B mm	Thickness		Root radius  r mm	Depth between fillets  d mm	Ratios for local buckling		Second moment of area I		Radius of gyration i	
				of web  t mm	of flange  T mm			Flange  B/2T	Web  d/t	Axis  x-x cm <sup>4</sup>	Axis  y-y cm <sup>4</sup>	Axis  x-x cm	Axis  y-y cm
127 x 76 x 13	13.0	127.0	76.0	4.0	7.6	7.6	96.6	5.00	24.2	473	56	5.35	1.84
152 x 89 x 16	16.0	152.4	88.7	4.5	7.7	7.6	121.8	5.76	27.1	834	90	6.41	2.10
178 x 102 x 19	19.0	177.8	101.2	4.8	7.9	7.6	146.8	6.41	30.6	1356	137	7.48	2.37
203 x 102 x 23	23.1	203.2	101.8	5.4	9.3	7.6	169.4	5.47	31.4	2105	164	8.46	2.36
203 x 133 x 25	25.1	203.2	133.2	5.7	7.8	7.6	172.4	8.54	30.2	2340	308	8.56	3.10
203 x 133 x 30	30.0	206.8	133.9	6.4	9.6	7.6	172.4	6.97	26.9	2896	385	8.71	3.17
254 x 102 x 22	22.0	254.0	101.6	5.7	6.8	7.6	225.2	7.47	39.5	2841	119	10.10	2.06
254 x 102 x 25	25.2	257.2	101.9	6.0	8.4	7.6	225.2	6.07	37.5	3415	149	10.30	2.15
254 x 102 x 28	28.3	260.4	102.2	6.3	10.0	7.6	225.2	5.11	35.7	4005	179	10.50	2.22
254 x 146 x 31	31.1	251.4	146.1	6.0	8.6	7.6	219.0	8.49	36.5	4413	448	10.50	3.36
254 x 146 x 37	37.0	256.0	146.4	6.3	10.9	7.6	219.0	6.72	34.8	5537	571	10.80	3.48
254 x 146 x 43	43.0	259.6	147.3	7.2	12.7	7.6	219.0	5.80	30.4	6544	677	10.90	3.52
305 x 102 x 25	24.8	305.1	101.6	5.8	7.0	7.6	275.9	7.26	47.6	4455	123	11.90	1.97
305 x 102 x 28	28.2	308.7	101.8	6.0	8.8	7.6	275.9	5.78	46.0	5366	155	12.20	2.08
305 x 102 x 33	32.8	312.7	102.4	6.6	10.8	7.6	275.9	4.74	41.8	6501	194	12.50	2.15
305 x 127 x 37	37.0	304.4	123.4	7.1	10.7	8.9	265.2	5.77	37.4	7171	336	12.30	2.67
305 x 127 x 42	41.9	307.2	124.3	8.0	12.1	8.9	265.2	5.14	33.2	8196	389	12.40	2.70
305 x 127 x 48	48.1	311.0	125.3	9.0	14.0	8.9	265.2	4.48	29.5	9575	461	12.50	2.74
305 x 165 x 40	40.3	303.4	165.0	6.0	10.2	8.9	265.2	8.09	44.2	8503	764	12.90	3.86
305 x 165 x 46	46.1	306.6	165.7	6.7	11.8	8.9	265.2	7.02	39.6	9899	896	13.00	3.90
305 x 165 x 54	54.0	310.4	166.9	7.9	13.7	8.9	265.2	6.09	33.6	11696	1063	13.00	3.93
356 x 171 x 45	45.0	351.4	171.1	7.0	9.7	12.7	306.6	8.82	43.8	12195	811	14.50	3.75
356 x 171 x 51	51.0	355.0	171.5	7.4	11.5	12.7	306.6	7.46	41.4	14265	969	14.80	3.85
356 x 171 x 57	57.0	358.0	172.2	8.1	13.0	12.7	306.6	6.62	37.9	16168	1109	14.90	3.90
356 x 171 x 67	67.1	363.4	173.2	9.1	15.7	12.7	306.6	5.52	33.7	19592	1362	15.10	3.98
406 x 140 x 39	39.0	398.0	141.8	6.4	8.6	12.7	355.4	8.24	55.5	12679	410	15.90	2.86
406 x 140 x 46	46.0	403.2	142.2	6.8	11.2	12.7	355.4	6.35	52.3	15856	538	16.40	3.02
406 x 140 x 53	53.3	406.6	143.3	7.9	12.9	12.7	355.4	5.55	45.0	18454	635	16.40	3.05
406 x 178 x 54	54.1	402.6	177.7	7.7	10.9	12.7	355.4	8.15	46.2	18893	1022	16.50	3.84
406 x 178 x 60	60.1	406.4	177.9	7.9	12.8	12.7	355.4	6.95	45.0	21767	1203	16.80	3.95
406 x 178 x 67	67.1	409.4	178.8	8.8	14.3	12.7	355.4	6.25	40.4	24502	1365	16.90	3.98
406 x 178 x 74	74.2	412.8	179.5	9.5	16.0	12.7	355.4	5.61	37.4	27481	1546	17.00	4.03
406 x 178 x 85	85.3	417.2	181.9	10.9	18.2	12.7	355.4	5.00	32.6	31874	1831	17.10	4.10
457 x 152 x 52	52.3	449.8	152.4	7.6	10.9	12.7	402.6	6.99	53.0	21586	645	17.90	3.10
457 x 152 x 60	59.8	454.6	152.9	8.1	13.3	12.7	402.6	5.75	49.7	25717	795	18.30	3.22
457 x 152 x 67	67.2	458.0	153.8	9.0	15.0	12.7	402.6	5.13	44.7	29144	913	18.40	3.26
457 x 152 x 74	74.2	462.0	154.4	9.6	17.0	12.7	402.6	4.54	41.9	32891	1047	18.60	3.32
457 x 152 x 82	82.1	465.8	155.3	10.5	18.9	12.7	402.6	4.11	38.3	36806	1185	18.70	3.36
457 x 191 x 67	67.1	453.4	189.9	8.5	12.7	12.7	402.6	7.48	47.4	29597	1452	18.60	4.11
457 x 191 x 74	74.3	457.0	190.4	9.0	14.5	12.7	402.6	6.57	44.7	33536	1672	18.80	4.19
457 x 191 x 82	82.0	460.0	191.3	9.9	16.0	12.7	402.6	5.98	40.7	37268	1871	18.80	4.22
457 x 191 x 89	89.3	463.4	191.9	10.5	17.7	12.7	402.6	5.42	38.3	41232	2090	19.00	4.28



# UNIVERSAL BEAMS (UB) SIZE CHART

Universal beams (UB) sizes

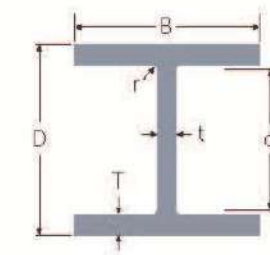
Designation	Mass per metre	Depth of section	Width of section	Thickness		Root radius	Depth between fillets	Ratios for local buckling		Second moment of area I		Radius of gyration i	
				of web	of flange			Flange	Web	Axis	Axis	Axis	Axis
				t	T			B/2T	d/t	x-x	y-y	x-x	y-y
Serial size	kg/m	D mm	B mm	t mm	T mm	r mm	d mm			cm <sup>4</sup>	cm <sup>4</sup>	cm	cm
457 x 191 x 98	98.3	467.2	192.8	11.4	19.6	12.7	402.6	4.92	35.3	45944	2348	19.1	4.32
457 x 191 x 106	105.8	469.2	194.0	12.6	20.6	12.7	402.6	4.71	32.0	49090	2515	19.1	4.31
457 x 191 x 133	133.3	480.6	196.7	15.3	26.3	12.7	402.6	3.74	26.3	64058	3350	19.4	4.43
457 x 191 x 161	161.4	492.0	199.4	18.0	32.0	12.7	402.6	3.12	22.4	79996	4251	19.7	4.54
457 x 280 x 113	113.0	463.0	280.0	10.8	17.3	20.0	388.4	8.09	36.0	56724	6338	19.7	6.58
457 x 280 x 128	128.0	467.0	282.0	12.2	19.6	20.0	387.8	7.19	31.8	64820	7337	19.8	6.64
457 x 280 x 144	144.0	472.0	283.0	13.6	22.1	20.0	387.8	6.40	28.5	73727	8362	19.9	6.69
457 x 280 x 158	158.0	476.0	284.0	15.0	23.9	20.0	388.2	5.94	25.9	80756	9142	19.9	6.70
457 x 280 x 177	177.0	482.0	286.0	16.6	26.9	20.0	388.2	5.32	23.4	92134	10511	20.1	6.78
457 x 280 x 193	193.0	489.0	283.0	17.0	30.5	20.0	388.0	4.64	22.8	103476	11545	20.4	6.81
457 x 280 x 213	213.0	495.0	285.0	18.5	33.5	20.0	388.0	4.25	21.0	115446	12954	20.5	6.88
457 x 280 x 235	235.0	501.0	287.0	20.6	36.6	20.0	387.8	3.92	18.8	128452	14459	20.6	6.92
457 x 280 x 260	260.0	509.0	289.0	22.6	40.4	20.0	388.2	3.58	17.2	144803	16303	20.8	6.99
457 x 280 x 286	286.0	517.0	291.0	24.4	44.4	20.0	388.2	3.28	15.9	162187	18297	21.0	7.07
457 x 280 x 315	315.0	525.0	293.0	26.9	49.5	20.0	388.0	3.02	14.4	180967	20414	21.2	7.12
533 x 165 x 66	65.7	524.7	165.1	8.9	11.4	12.7	476.5	7.24	53.5	35028	859	20.5	3.20
533 x 165 x 74	74.7	529.1	165.9	9.7	13.6	12.7	476.5	6.10	49.1	41058	1040	20.8	3.30
533 x 165 x 85	84.8	534.9	166.5	10.3	16.5	12.7	476.5	5.05	46.3	48631	1275	21.2	3.44
533 x 210 x 82	82.2	528.3	208.8	9.6	13.2	12.7	476.5	7.91	49.6	47539	2007	21.3	4.38
533 x 210 x 92	92.1	533.1	209.3	10.1	15.6	12.7	476.5	6.71	47.2	55227	2389	21.7	4.51
533 x 210 x 101	101.0	536.7	210.0	10.8	17.4	12.7	476.5	6.03	44.1	61519	2692	21.9	4.57
533 x 210 x 109	109.0	539.5	210.8	11.6	18.8	12.7	476.5	5.61	41.1	66822	2943	21.9	4.60
533 x 210 x 122	122.0	544.5	211.9	12.7	21.3	12.7	476.5	4.97	37.5	76043	3388	22.1	4.67
533 x 210 x 138	138.3	549.1	213.9	14.7	23.6	12.7	476.5	4.53	32.4	86088	3864	22.1	4.68
533 x 312 x 150	150.6	542.5	312.0	12.7	20.3	12.7	476.5	7.68	37.5	100633	10285	22.9	7.32
533 x 312 x 165	165.0	546.0	313.0	14.0	22.2	12.7	476.2	7.05	34.0	110955	11359	23.0	7.34
533 x 312 x 182	181.5	550.7	314.5	15.2	24.4	12.7	476.5	6.44	31.3	123222	12667	23.1	7.40
533 x 312 x 196	196.0	554.0	316.0	16.5	26.3	12.7	476.0	6.01	28.8	133993	13852	23.1	7.44
533 x 312 x 219	218.7	560.3	317.4	18.3	29.2	12.7	476.5	5.43	26.0	150976	15589	23.3	7.48
533 x 312 x 248	248.0	571.0	315.0	19.0	34.5	12.7	476.6	4.57	25.1	177499	18003	23.8	7.57
533 x 312 x 272	273.2	577.1	320.2	21.1	37.6	12.7	476.5	4.26	22.6	198578	20615	23.9	7.70
610 x 178 x 82	81.8	598.6	177.9	10.0	12.8	20.0	533.0	6.95	53.3	57487	1209	23.3	3.37
610 x 178 x 92	92.2	603.0	178.8	10.9	15.0	20.0	533.0	5.96	48.9	66195	1439	23.5	3.47
610 x 178 x 100	100.3	607.4	179.2	11.3	17.2	20.0	533.0	5.21	47.2	74145	1661	23.9	3.58
610 x 229 x 101	101.2	602.6	227.6	10.5	14.8	20.0	533.0	7.69	50.8	77398	2917	24.3	4.72
610 x 229 x 113	113.0	607.6	228.2	11.1	17.3	20.0	533.0	6.60	48.0	88936	3437	24.7	4.85
610 x 229 x 125	125.1	612.2	229.0	11.9	19.6	20.0	533.0	5.84	44.8	100228	3935	24.9	4.94
610 x 229 x 140	139.9	617.2	230.2	13.1	22.1	20.0	533.0	5.21	40.7	113395	4509	25.1	5.00
610 x 305 x 149	149.2	612.4	304.8	11.8	19.7	20.0	533.0	7.74	45.2	126738	9309	25.8	6.98
610 x 305 x 179	179.0	620.2	307.1	14.1	23.6	20.0	533.0	6.51	37.8	153886	11410	25.9	7.06
610 x 305 x 238	238.1	635.8	311.4	18.4	31.4	20.0	533.0	4.96	29.0	210333	15839	26.3	7.21
610 x 324 x 155	155.0	611.0	324.0	12.7	19.0	20.0	533.0	8.53	42.0	130552	10785	25.6	7.36
610 x 324 x 174	174.0	616.0	325.0	14.0	21.6	20.0	532.8	7.52	38.1	148722	12376	25.8	7.43
610 x 324 x 195	195.0	622.0	327.0	15.4	24.4	20.0	533.2	6.70	34.6	169453	14242	26.0	7.53
610 x 324 x 217	217.0	628.0	328.0	16.5	27.7	20.0	532.6	5.92	32.3	192362	16319	26.2	7.64
610 x 324 x 241	241.0	635.0	329.0	17.9	31.0	20.0	533.0	5.31	29.8	216996	18433	26.5	7.71



# UNIVERSAL BEAMS (UB) SIZE CHART

Universal beams (UB) sizes

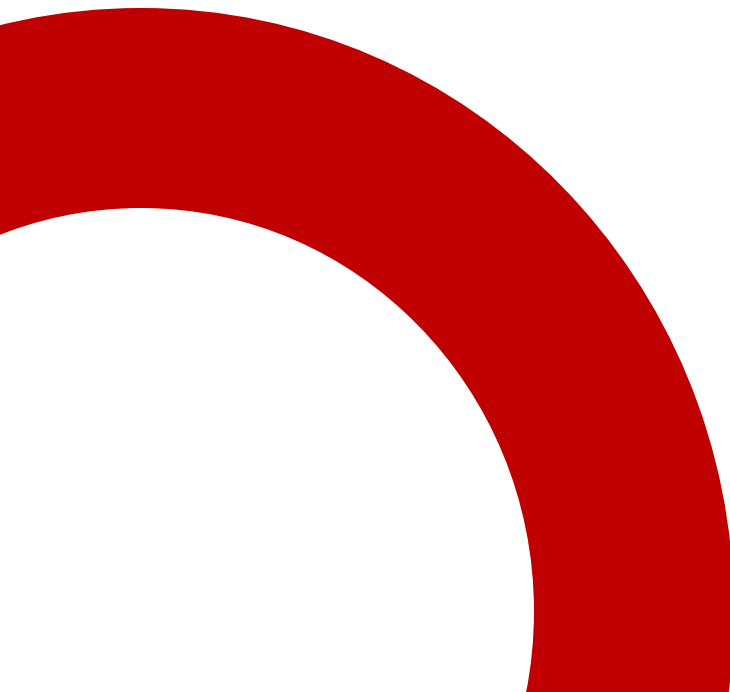
Designation	Mass per metre	Depth of section	Width of section	Thickness		Root radius	Depth between fillets	Ratios for local buckling		Second moment of area		Radius of gyration	
				of web	of flange			Flange	Web	Axis	Axis	Axis	Axis
				t	T			B/2T	d/t	x-x	y-y	x-x	y-y
Serial size	kg/m	D mm	B mm	t mm	T mm	r mm	d mm			cm <sup>4</sup>	cm <sup>4</sup>	cm	cm
610 x 324 x 262	262.0	641.0	327.0	19.0	34.0	20.0	533.0	4.81	28.1	237554	19854	26.6	7.70
610 x 324 x 285	285.0	647.0	329.0	20.6	37.1	20.0	532.8	4.43	25.9	262288	22069	26.8	7.77
610 x 324 x 307	307.0	653.0	330.0	22.1	39.9	20.0	533.2	4.14	24.1	285235	23958	26.9	7.80
610 x 324 x 341	341.0	661.0	333.0	24.4	43.9	20.0	533.2	3.79	21.9	319846	27097	27.1	7.89
610 x 324 x 372	372.0	669.0	335.0	26.4	48.0	20.0	533.0	3.49	20.2	354794	30175	27.3	7.96
686 x 254 x 125	125.2	677.9	253.0	11.7	16.2	20.0	605.5	7.81	51.8	119448	4385	27.2	5.22
686 x 254 x 140	140.1	683.5	253.7	12.4	19.0	20.0	605.5	6.68	48.8	137723	5186	27.7	5.37
686 x 254 x 152	152.4	687.5	254.5	13.2	21.0	20.0	605.5	6.06	45.9	151811	5786	27.9	5.44
686 x 254 x 170	170.2	692.9	255.8	14.5	23.7	20.0	605.5	5.40	41.8	171782	6633	28.1	5.51
686 x 254 x 192	192.6	702.0	254.0	15.5	27.9	20.0	606.2	4.55	39.1	199444	7646	28.5	5.58
762 x 267 x 134	133.9	750.0	264.4	12.0	15.5	20.0	679.0	8.53	56.6	152061	4790	29.8	5.28
762 x 267 x 147	146.9	754.0	265.2	12.8	17.5	20.0	679.0	7.58	53.0	169871	5457	30.0	5.38
762 x 267 x 161	161.0	758.0	266.0	13.8	19.3	20.0	679.4	6.89	49.2	187252	6075	30.2	5.44
762 x 267 x 173	173.0	762.2	266.7	14.3	21.6	20.0	679.0	6.17	47.5	206651	6852	30.5	5.56
762 x 267 x 185	185.0	766.0	267.0	14.9	23.6	20.0	678.8	5.66	45.6	224146	7512	30.8	5.64
762 x 267 x 197	196.8	769.8	268.0	15.6	25.4	20.0	679.0	5.28	43.5	241326	8177	31.0	5.70
838 x 292 x 176	175.9	834.9	291.7	14.0	18.8	20.0	757.3	7.76	54.1	247120	7800	33.2	5.89
838 x 292 x 194	193.8	840.7	292.4	14.7	21.7	20.0	757.3	6.74	51.5	280274	9068	33.6	6.05
838 x 292 x 210	210.0	846.0	293.0	15.4	24.4	20.0	757.2	6.00	49.2	311719	10259	34.0	6.17
838 x 292 x 226	226.5	850.9	293.8	16.1	26.8	20.0	757.3	5.48	47.0	340802	11361	34.3	6.27
838 x 292 x 252	250.7	859.0	292.1	17.0	31.0	20.0	757.0	4.71	44.5	387599	12916	34.8	6.35
914 x 305 x 201	200.9	903.0	303.3	15.1	20.2	19.1	824.4	7.51	54.6	325254	9423	35.7	6.07
914 x 305 x 224	224.2	910.4	304.1	15.9	23.9	19.1	824.4	6.36	51.8	376414	11236	36.3	6.27
914 x 305 x 238	238.3	915.0	305.0	16.5	25.9	19.1	825.0	5.89	50.0	406472	12285	36.6	6.36
914 x 305 x 253	253.4	918.4	305.5	17.3	27.9	19.1	824.4	5.47	47.7	436305	13301	36.8	6.42
914 x 305 x 271	271.0	923.0	307.0	18.4	30.0	19.1	824.8	5.12	44.8	471633	14518	36.9	6.48
914 x 305 x 289	289.1	926.6	307.7	19.5	32.0	19.1	824.4	4.81	42.3	504187	15597	37.0	6.51
914 x 305 x 313	313.0	932.0	309.0	21.1	34.5	19.1	824.8	4.48	39.1	548297	17039	37.1	6.54
914 x 305 x 345	345.1	943	308	22.1	39.9	19.1	825	3.86	37.3	625645	19515	37.7	6.66
914 x 305 x 381	381.5	950.7	310.3	24.4	43.9	20.0	822.9	3.53	33.7	697408	21975	37.9	6.72
914 x 419 x 343	343.3	911.8	418.5	19.4	32.0	24.1	799.6	6.54	41.2	625780	39156	37.8	9.46
914 x 419 x 365	365.0	916.0	419.4	20.3	34.3	24.1	799.2	6.11	39.4	671104	42245	38.0	9.53
914 x 419 x 388	388.0	921.0	420.5	21.4	36.6	24.1	799.6	5.74	37.4	719635	45438	38.2	9.59
1016 x 305 x 222	222.0	970.3	300.0	16.0	21.1	30.0	868.1	7.11	54.3	407961	9546	38.0	5.81
1016 x 305 x 249	248.7	980.1	300.0	16.5	26.0	30.0	868.1	5.77	52.6	481192	11754	39.0	6.09
1016 x 305 x 272	272.3	990.1	300.0	16.5	31.0	30.0	868.1	4.84	52.6	553974	14004	40.0	6.35
1016 x 305 x 314	314.3	999.9	300.0	19.1	35.9	30.0	868.1	4.18	45.5	644063	16232	40.1	6.37
1016 x 305 x 350	349.4	1008.0	302.0	21.1	40.0	30.0	868.0	3.78	41.1	722965	18460	40.30	6.44
1016 x 305 x 393	392.7	1015.9	303.0	24.4	43.9	30.0	868.1	3.45	35.6	807503	20496	40.2	6.40
1016 x 305 x 437	437.0	1026.1	305.4	26.9	49.0	30.0	868.1	3.12	32.3	910322	23447	40.4	6.49
1016 x 305 x 487	486.7	1036.3	308.5	30.0	54.1	30.0	868.1	2.85	28.9	1021884	26721	40.6	6.57



Universal columns (UC) sizes

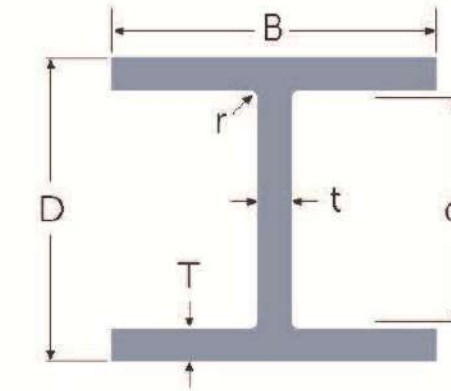
# UNIVERSAL COLUMN (UC) SIZE CHART

Designation  Serial size	Mass per metre  kg/m	Depth of section  D mm	Width of section  B mm	Thickness		Root radius  r mm	Depth between fillets  d mm	Ratios for local buckling		Second moment of area I		Radius of gyration i	
				of web  t mm	of flange  T mm			Flange  B/2T	Web  d/t	Axis  x-x cm <sup>4</sup>	Axis  y-y cm <sup>4</sup>	Axis  x-x cm	Axis  y-y cm
152 x 152 x 23	23.0	152.4	152.2	5.8	6.8	7.6	123.6	11.20	21.30	1250	400	6.54	3.70
152 x 152 x 30	30.0	157.6	152.9	6.5	9.4	7.6	123.6	8.13	19.00	1748	560	6.76	3.83
152 x 152 x 37	37.0	161.8	154.4	8.0	11.5	7.6	123.6	6.71	15.50	2210	706	6.85	3.87
152 x 152 x 44	44.0	166.0	155.9	9.5	13.6	7.6	123.6	5.73	13.00	2703	860	6.94	3.92
152 x 152 x 51	51.2	170.2	157.4	11.0	15.7	7.6	123.6	5.01	11.20	3227	1022	7.04	3.96
203 x 203 x 46	46.1	203.2	203.6	7.2	11.0	12.7	155.8	9.25	21.60	4605	1549	8.82	5.11
203 x 203 x 52	52.0	206.2	204.3	7.9	12.5	12.7	155.8	8.17	19.70	5296	1778	8.91	5.16
203 x 203 x 60	60.0	209.6	205.8	9.4	14.2	12.7	155.8	7.25	16.60	6162	2065	8.95	5.18
203 x 203 x 71	71.0	215.8	206.4	10.0	17.3	12.7	155.8	5.97	15.60	7655	2538	9.18	5.28
203 x 203 x 86	86.1	222.2	209.1	12.7	20.5	12.7	155.8	5.10	12.30	9486	3128	9.28	5.33
203 x 203 x 100	99.6	228.6	210.3	14.5	23.7	12.7	155.8	4.44	10.70	11335	3680	9.43	5.38
203 x 203 x 113	113.5	235.0	212.1	16.3	26.9	12.7	155.8	3.94	9.56	13338	4286	9.59	5.44
203 x 203 x 127	127.5	241.4	213.9	18.1	30.1	12.7	155.8	3.55	8.61	15474	4921	9.74	5.50
254 x 254 x 73	73.1	254.1	254.6	8.6	14.2	20.0	185.7	8.96	21.60	11643	3910	11.10	6.41
254 x 254 x 81	81.0	256.0	255.0	9.4	15.6	20.0	184.8	8.17	19.7	12801	4316	11.1	6.44
254 x 254 x 89	88.9	260.3	256.3	10.3	17.3	20.0	185.7	7.41	18.00	14504	4860	11.20	6.49
254 x 254 x 101	101.0	264.0	257.0	11.9	19.6	20.0	184.8	6.56	15.5	16603	5552	11.3	6.51
254 x 254 x 107	107.1	266.7	258.8	12.8	20.5	20.0	185.7	6.31	14.50	17747	5931	11.30	6.55
254 x 254 x 115	115.0	269.0	259.0	13.5	22.1	20.0	184.8	5.86	13.7	19171	6409	11.4	6.57
254 x 254 x 132	132.0	276.3	261.3	15.3	25.3	20.0	185.7	5.16	12.10	22765	7535	11.60	6.65
254 x 254 x 149	149.0	282.0	263.0	17.3	28.4	20.0	185.2	4.63	10.7	26167	8627	11.7	6.71
254 x 254 x 167	167.1	289.1	265.2	19.2	31.7	20.0	185.7	4.18	9.67	30234	9875	11.90	6.78
305 x 305 x 97	96.9	307.9	305.3	9.9	15.4	20.0	237.1	9.91	23.90	22504	7310	13.40	7.65
305 x 305 x 107	107.0	311.0	306.0	10.9	17.0	20.0	237.0	9.00	21.7	25055	8125	13.5	7.68
305 x 305 x 118	117.9	314.5	307.4	12.0	18.7	20.0	237.1	8.22	19.80	27927	9061	13.60	7.73
305 x 305 x 129	129.0	318.0	308.0	13.1	20.6	20.0	236.8	7.48	18.1	31035	10041	13.6	7.76
305 x 305 x 137	136.9	320.5	309.2	13.8	21.7	20.0	237.1	7.12	17.20	33070	10702	13.70	7.80
305 x 305 x 143	143.0	323.0	309.0	14.0	22.9	20.0	237.2	6.75	16.9	35029	11272	13.8	7.83
305 x 305 x 158	158.1	327.1	311.2	15.8	25.0	20.0	237.1	6.22	15.00	39002	12572	13.90	7.87
305 x 305 x 179	179.0	333.0	313.0	18.0	28.1	20.0	236.8	5.57	13.2	44796	14381	14.0	7.92
305 x 305 x 198	198.1	339.9	314.5	19.1	31.4	20.0	237.1	5.01	12.40	51159	16303	14.20	8.01
305 x 305 x 202	202.0	341.0	315.0	20.1	31.8	20.0	237.4	4.95	11.8	52247	16592	14.2	8.00
305 x 305 x 226	226.0	348.0	317.0	22.1	35.6	20.0	236.8	4.45	10.7	59829	18934	14.4	8.08
305 x 305 x 240	240.0	352.5	318.4	23.0	37.7	20.0	237.1	4.22	10.30	64458	20319	14.50	8.13
305 x 305 x 253	253.0	356.0	319.0	24.4	39.6	20.0	236.8	4.03	9.70	68490	21468	14.5	8.14
305 x 305 x 283	282.9	365.3	322.2	26.8	44.1	20.0	237.1	3.65	8.85	79127	24641	14.80	8.25
356 x 368 x 129	129.0	355.6	368.6	10.4	17.5	20.0	280.6	10.50	27.00	40591	14613	15.60	9.39
356 x 368 x 134	134.0	356.0	369.0	11.2	18.0	20.0	280.0	10.3	25.0	41866	15081	15.6	9.36
356 x 368 x 147	147.0	360.0	370.0	12.3	19.8	20.0	280.4	9.34	22.8	46647	16725	15.7	9.40
356 x 368 x 153	152.9	362.0	370.5	12.3	20.7	20.0	280.6	8.95	22.80	48935	17556	15.80	9.46
356 x 368 x 162	162.0	364.0	371.0	13.3	21.8	20.0	280.4	8.51	21.1	51897	18565	15.8	9.45
356 x 368 x 177	177.0	368.2	372.6	14.4	23.8	20.0	280.6	7.83	19.50	57464	20532	15.90	9.51



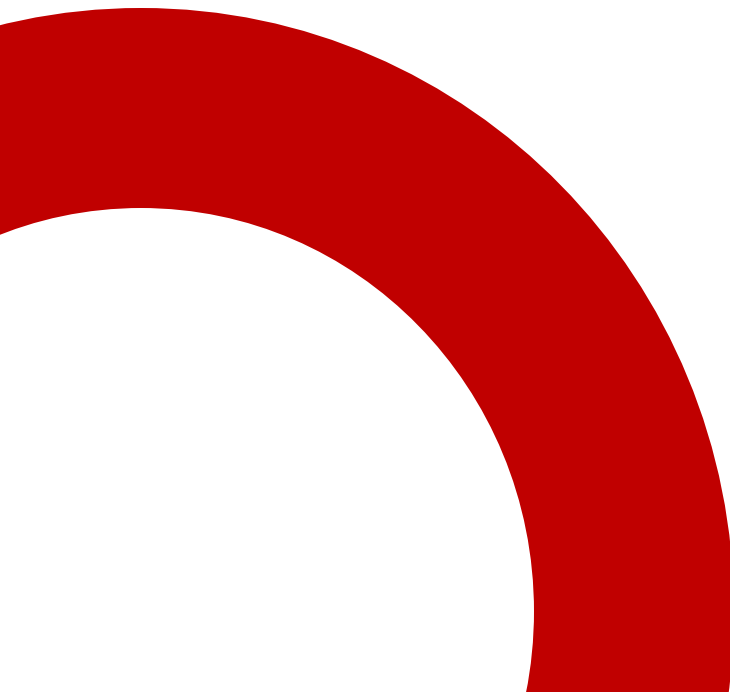


# UNIVERSAL COLUMN (UC) SIZE CHART

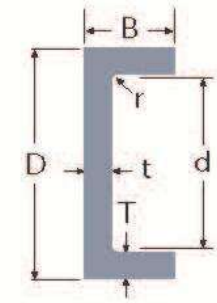


Universal columns (UC) sizes

Designation  Serial size	Mass per metre  kg/m	Depth of section  D mm	Width of section  B mm	Thickness		Root radius  r mm	Depth between fillets  d mm	Ratios for local buckling		Second moment of area  I		Radius of gyration  i	
				of web  t mm	of flange  T mm			Flange  B/2T	Web  d/t	Axis  x-x cm <sup>4</sup>	Axis  y-y cm <sup>4</sup>	Axis  x-x cm	Axis  y-y cm
356 x 368 x 179	179.0	368.0	374.0	15.0	23.9	20.0	280.2	7.82	18.7	57940	20853	15.9	9.52
356 x 368 x 196	196.0	372.0	374.0	16.4	26.2	20.0	279.6	7.14	17.0	63988	22861	15.9	9.53
356 x 368 x 202	201.9	374.6	374.7	16.5	27.0	20.0	280.6	6.94	17.00	66607	23692	16.00	9.57
356 x 406 x 216	216.0	375.0	394.0	17.3	27.7	20.0	279.6	7.11	16.2	71495	28257	16.1	10.1
356 x 406 x 235	235.1	381.0	394.8	18.4	30.2	20.0	280.6	6.54	15.30	79431	30997	16.20	10.10
356 x 406 x 237	237.0	380.0	395.0	18.9	30.2	20.0	279.6	6.54	14.80	79134	31045	16.2	10.10
356 x 406 x 262	262.0	387.0	398.0	21.1	33.3	20.0	280.4	5.98	13.3	89764	35023	16.3	10.2
356 x 406 x 287	287.1	393.6	399.0	22.6	36.5	20.0	280.6	5.47	12.40	100221	38682	16.50	10.30
356 x 406 x 314	314.0	399.0	401.0	24.9	39.6	20.0	279.8	5.06	11.2	110589	42609	16.6	10.3
356 x 406 x 340	339.9	406.4	403.0	26.6	42.9	20.0	280.6	4.70	10.50	122889	46859	16.80	10.40
356 x 406 x 347	347.0	407.0	404.0	27.2	43.7	20.0	279.6	4.62	10.3	125301	48091	16.8	10.4
356 x 406 x 382	382.0	416.0	406.0	29.8	48.0	20.0	280.0	4.23	9.40	141674	53623	17.0	10.5
356 x 406 x 393	393.0	419.0	407.0	30.6	49.2	20.0	280.6	4.14	9.17	146964	55374	17.10	10.50
356 x 406 x 421	421.0	425.0	409.0	32.8	52.6	20.0	279.8	3.89	8.53	159938	60089	17.2	10.6
356 x 406 x 463	463.0	435.0	412.0	35.8	57.4	20.0	280.2	3.59	7.83	180519	67044	17.5	10.70
356 x 406 x 467	467.0	436.6	412.2	35.8	58.0	20.0	280.6	3.55	7.84	183349	67842	17.50	10.70
356 x 406 x 509	509.0	446.0	416.0	39.1	62.7	20.0	280.6	3.32	7.18	204886	75411	17.7	10.8
356 x 406 x 551	551.0	455.6	418.5	42.1	67.5	20.0	280.6	3.10	6.67	227284	82681	18.00	10.80
356 x 406 x 592	592.0	465.0	421.0	45.0	72.3	20.0	280.4	2.91	6.23	250519	90184	18.2	10.9
356 x 406 x 634	633.9	474.6	424.0	47.6	77.0	20.0	280.6	2.75	5.89	275191	98138	18.40	11.00



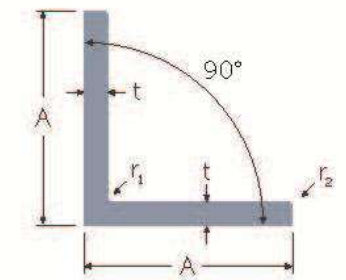
# PFC CHANNELS SIZE CHART



Parallel flange channels (PFC) sizes

Designation	Mass per metre	Depth of section	Width of section	Thickness		Distance of Cy	Root radius	Depth between fillets	Ratios for local buckling		Second moment of area		Radius of gyration
				of web	of flange				Flange	Web	Axis	Axis	Axis
				t	T								
Serial size	kg/m	D mm	B mm	t mm	T mm	cm	mm	mm			cm <sup>4</sup>	cm <sup>4</sup>	cm
150 x 75 x 18	17.9	150	75	5.5	10.0	2.58	12	106	7.50	19.3	861	131	6.15
150 x 90 x 24	23.9	150	90	6.5	12.0	3.30	12	102	7.50	15.7	1162	253	6.18
180 x 75 x 20	20.3	180	75	6.0	10.5	2.41	12	135	7.14	22.5	1370	146	7.27
180 x 90 x 26	26.1	180	90	6.5	12.5	3.17	12	131	7.20	20.2	1817	277	7.40
200 x 75 x 23	23.4	200	75	6.0	12.5	2.48	12	151	6.00	25.2	1963	170	8.11
200 x 90 x 30	29.7	200	90	7.0	14.0	3.12	12	148	6.43	21.1	2523	314	8.16
230 x 75 x 26	25.7	230	75	6.5	12.5	2.30	12	181	6.00	27.8	2748	181	9.17
230 x 90 x 32	32.2	230	90	7.5	14.0	2.92	12	178	6.43	23.7	3518	334	9.27
260 x 75 x 28	27.6	260	75	7.0	12.0	2.10	12	212	6.25	30.3	3619	185	10.10
260 x 90 x 35	34.8	260	90	8.0	14.0	2.74	12	208	6.43	26.0	4728	353	10.30
300 x 90 x 41	41.4	300	90	9.0	15.5	2.60	12	245	5.81	27.2	7218	404	11.70
300 x 100 x 46	45.5	300	100	9.0	16.5	3.05	15	237	6.06	26.3	8229	568	11.90

# EQUAL ANGLE SIZE CHART



Equal angles (EA) sizes

Designation  Serial size A x A x t mm x mm x mm	Mass per metre kg/m	Depth of section h mm	Width of section b mm	Thickness s mm	Root radius r <sub>1</sub> mm	Toe radius r <sub>2</sub> mm	Area of section cm <sub>2</sub>	Distance to centre of gravity C cm	Second moment of area I		
									Axis	Axis	Axis
									x-x, y-y	u-u	v-v
									cm <sup>4</sup>	cm <sup>4</sup>	cm <sup>4</sup>
120 x 120 x 8	14.7	120	120	8	13	6.5	18.7	3.23	256	411	107
120 x 120 x 10	18.2	120	120	10	13	6.5	23.2	3.31	313	497	129
120 x 120 x 12	21.6	120	120	12	13	6.5	27.5	3.40	368	584	152
120 x 120 x 15	26.6	120	120	15	13	6.5	33.9	3.51	445	710	186
150 x 150 x 10	23.0	150	150	10	16	8.0	29.3	4.03	624	990	258
150 x 150 x 12	27.3	150	150	12	16	8.0	34.8	4.12	737	1170	303
150 x 150 x 15	33.8	150	150	15	16	8.0	43.0	4.25	898	1430	370
150 x 150 x 18	40.1	150	150	18	16	8.0	51.0	4.37	1050	1680	440
200 x 200 x 16	48.5	200	200	16	18	9.0	61.8	5.52	2342	3720	960
200 x 200 x 18	54.2	200	200	18	18	9.0	69.1	5.60	2600	4150	1050
200 x 200 x 20	59.9	200	200	20	18	9.0	76.3	5.68	2851	4530	1170
200 x 200 x 24	71.1	200	200	24	18	9.0	90.6	5.84	3331	5280	1380

# HOLLOW SECTIONS SIZE CHART

## TECHNICAL DATA OF SQUARE AND RECTANGLE HOLLOW SECTION CONFORMING TO ASTM A500 GRADE A & B

SIZE LXB mm	(Thickness mm)																							
	0.90	1.00	1.20	1.50	1.80	2.00	2.30	2.50	2.60	2.80	3.00	3.50	3.60	4.00	4.50	4.80	5.00	5.50	5.80	6.00	6.50	7.00	7.50	8.00
12 X 12	0.297	0.325	0.377	0.449																				
16 X 16	0.410	0.451	0.528	0.637																				
19 X 19	0.495	0.545	0.641	0.779	0.907	0.987																		
25 X 25	0.665	0.733	0.867	1.061	1.245	1.364	1.532	1.640	1.692	1.793	1.890													
30 X 30	0.806	0.890	1.056	1.297	1.528	1.678	1.894	2.032	2.100	2.233	2.361													
31 X 31	0.834	0.922	1.094	1.344	1.584	1.740	1.966	2.111	2.182	2.321	2.455													
38 X 38	1.032	1.142	1.357	1.674	1.980	2.180	2.471	2.660	2.753	2.936	3.115	3.544	3.627	3.947										
50 X 50	1.371	1.518	1.810	2.239	2.659	2.934	3.338	3.602	3.733	3.991	4.245	4.863	4.983	5.454	6.020	6.347	6.560	7.074	7.370	7.562				
75 X 75				3.416	4.072	4.504	5.144	5.565	5.774	6.189	6.601	7.610	7.809	8.594	9.552	10.115	10.485	11.391	11.923	12.273				
80 X 80				3.652	4.354	4.818	5.505	5.957	6.182	6.629	7.071	8.160	8.374	9.222	10.259	10.868	11.270	12.255	12.833	13.214				
100 X 100						6.074	6.949	7.527	7.815	8.387	8.955	10.358	10.635	11.734	13.085	13.883	14.410	15.709	16.476	16.982	18.229	19.451	20.647	21.817
125 X 125						7.644	8.754	9.490	9.856	10.585	11.310	13.105	13.461	14.874	16.617	17.651	18.335	20.026	21.029	21.692	23.332	24.946	26.534	28.097
31 X 19	0.665	0.733	0.868	1.061	1.246	1.363	1.532	1.640	1.692	1.793	1.890													
40 X 20	0.806	0.890	1.056	1.297	1.528	1.678	1.894	2.032	2.100	2.233	2.361													
40 X 25	0.877	0.969	1.150	1.415	1.670	1.835	2.074	2.229	2.304	2.453	2.597													
50 X 25	1.018	1.126	1.339	1.650	1.952	2.149	2.435	2.621	2.713	2.892	3.068													
60 X 30	1.230	1.361	1.621	2.003	2.376	2.620	2.977	3.210	3.325	3.552	3.774													
60 X 40	1.371	1.518	1.810	2.239	2.659	2.934	3.338	3.602	3.733	3.991	4.245													
80 X 40	1.654	1.832	2.186	2.710	3.224	3.562	4.060	4.387	4.549	4.871	5.187	5.962	6.113	6.710	7.433	7.854	8.130	8.801	9.191	9.446				
100 X 50				3.416	4.072	4.504	5.143	5.565	5.774	6.189	6.600	7.610	7.809	8.594	9.552	10.115	10.485	11.391	11.923	12.272				
120 X 60				4.123	4.920	5.446	6.227	6.742	6.999	7.508	8.013	9.259	9.505	10.478	11.672	12.376	12.840	13.982	14.654	15.098				
120 X 100						6.702	7.671	8.312	8.631	9.267	9.897	11.457	11.765	12.990	14.498	15.390	15.980	17.436	18.297	18.866	20.270	21.649	23.002	24.329
125 X 50						5.289	6.046	6.546	6.795	7.288	7.778	8.984	9.222	10.164	11.319	11.999	12.447	13.550	14.199	14.627	15.678	16.703	17.703	18.677
125 X 75						6.074	6.949	7.527	7.815	8.387	8.955	10.358	10.635	11.734	13.085	13.883	14.410	15.709	16.476	16.982	18.229	19.451	20.647	21.817
150 X 75						6.859	7.852	8.509	8.836	9.486	10.133	11.731	12.048	13.304	14.851	15.767	16.372	17.867	18.752	19.337	20.781	22.198	23.590	24.957
150 X 100						7.644	8.754	9.490	9.856	10.585	11.310	13.105	13.461	14.874	16.617	17.651	18.335	20.026	21.029	21.692	23.332	24.946	26.534	28.097


↓ Kg/m

**Thank You !**

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