

# SPS STEEL PLATE & SECTIONS

A MARUBENI-ITOCHU STEEL INC COMPANY



# SUPPLYING STEEL GLOBALLY SINCE 1965



[sps-bmsteel.co.uk](http://sps-bmsteel.co.uk)

QUALITY YOU CAN TRUST EVERY TIME



BMSTEEL



ANGUS F GUNN LTD

BMARCHITECTURAL

BARCLAY & MATHIESON

BMDISTRIBUTION



# GREEN STEEL

**AROUND THE WORLD, THE STEEL INDUSTRY HAS GEARED TOWARDS A SUSTAINABLE FUTURE, STEEL PLATE AND SECTIONS INCLUDED. WE ARE PLEASED TO INTRODUCE OUR RANGE OF GREEN STEEL.**

## WHAT IS GREEN STEEL?

Green steel is steel that is produced using renewable energy and hydrogen, instead of fossil fuels. This makes it a much more sustainable option than traditional steel production, which accounts for around 7% of global greenhouse gas emissions.

Also called sustainable or eco-friendly steel, green steel is a new way of producing steel that aims to have the least amount of impact on the environment throughout its full lifecycle. Because traditional steel production uses an abundance of fossil fuels and releases a large amount of carbon dioxide into the atmosphere, people are looking for alternative options that will combat climate change.

One important way to make steel “green” is to use energy from natural sources in the manufacturing process. To achieve this, it is necessary to switch from processes that use fossil fuels to cleaner ones, such as direct reduction iron (DRI) that runs on hydrogen or electric arc furnaces that use renewable energy. Using green energy cuts down on carbon emissions, which makes the process of steel production more environmentally friendly.

## A MORE ECO-FRIENDLY STEEL OPTION

Recycling is a critical component of green steel projects. Promoting the reuse of steel scrap in production cuts down on the need for new iron ore, which saves energy and natural resources. The circular economy approach, in which steel is recycled and used again, is in line with sustainability goals because it cuts down on waste and damage to the environment.

New technologies aid in the transition to green steel. To make steel production even better for the environment, researchers are constantly looking into ways to improve electrolysis techniques for making hydrogen and carbon capture technologies. To raise the standards of business, researchers are also always on the lookout for new materials and methods that use less energy or produce fewer emissions.

To speed up the steel industry’s adoption of environmentally friendly practices, incentives, rules and agreements are being set up. This change is in line with the rising demand from customers and investors for products that are both socially responsible and good for the environment.

## THE STEEL OF THE FUTURE

Green steel is an important step towards a more sustainable future because it reduces the huge amount of carbon dioxide released when standard steel is made. As the industry changes, it will be important for everyone involved to work together, for companies to spend money on research and development, and for eco-friendly technologies to be used. Only then will green steel techniques become widely used.

Already, the future of green steel is very bright. There are a number of companies that are developing and deploying green steel production technologies. Additionally, many governments around the world are providing financial support for green steel projects. As the demand for green steel increases and the cost of production comes down, it is expected that green steel will become the dominant form of steel production in the future. This will have a significant positive impact on the environment and on the global economy.

Regardless of whether you’re operating offshore, or are in the construction, renewables, defence, or nuclear sectors, choosing green steel from SPS ensures a commitment to environmentally responsible practices. SPS adopts sustainable manufacturing processes, utilising renewable energy sources, and emphasising steel recycling. Purchasing green steel from us not only supports eco-friendly initiatives but also contributes to a more sustainable and responsible supply chain. Contact us for more information.

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**VIEW ALL OF OUR  
QUALITY ASSURANCE CERTIFICATES**



1965

Incorporation of Steel Plate and Sections Limited, based in Birmingham. The founder was Ralph Robbins. The focus of the company was to supply structural steels to the energy sector.

During the early 2000's SPS added to its UK stock site locations and strategically placed stocks in the Netherlands, Dubai and Singapore to further develop its global presence.

2002

SPS acquired the assets of M Taylor Steels and moved head office from Birmingham city centre to Minworth Sutton Coldfield.

2007

## STEMCOR

SPS became part of the STEMCOR Group. Chairman Julian Robbins retired with immediate effect whilst Mark Robbins remained as MD through an agreed handover period, eventually leaving the business in 2009 to end the founding family's involvement.

SPS brought out of Stemcor group, the ownership of the company was the result of partnership between the long serving CEO of SPS Andrew Jones' holding company and investment from the Breal capital group.

Entire share capital of SPS was acquired by Barclay & Mathieson Ltd, therefore being re-branded as 'SPS a division of Barclay & Mathieson Ltd'

**BMSTEEL**

2018 2020 2022



The BM Steel Group (BM Group)  
acquired by  
Marubeni – Itochu Steel Inc. (MISI)

Barclay & Mathieson was established in **1877** at Wallace Street, Glasgow, Scotland, as a steel stockholding business. The company manufactures steel products for industry, and the records reflect their dealings with many of the prominent shipbuilding, engineering, sugar refining and building companies in the Glasgow area.

The partnership of Barclay & Mathieson was bought-out in **1925** by the Dykes family.

Following Mr Dykes' death in **1951**, his son, Mark Dyke, took over as director along with his brother, until some years later when they agreed to the serving directors "buying-in" to the company, although the Dykes family still maintained a minority shareholding.

The company was incorporated as a private limited company in August **1955** as Barclay & Mathieson Ltd

Moved to its present site at Shieldhall in **1957**.

Became part of the Stencor group of companies in **2008**.  
It operates 14 depots both in England and Scotland with the main headquarters remaining in Shieldhall, Glasgow.

ANGUS F GUNN LTD 2024

**SPS** STEEL PLATE & SECTIONS 2020

**pulman** steel 2019

**Group Consolidation** 2018

**AVON STEEL** METAL STOCKISTS 2017

**IMS** 2016

**BMSTEEL** 2015



**MARUBENI ITOCHU STEEL**

In **2022** The BM Steel Group (BM Group) was acquired by Marubeni – Itochu Steel Inc. (MISI)



**2021** E-commerce Website

1910 1920 1930 1940 1950 1960 1970 1980 1990 2000 2010 2020



TO BE THE LEADING SUPPLIER OF QUALITY STEEL, ASSOCIATED PRODUCTS AND INNOVATIVE SERVICES, TO SUPPORT SUSTAINABLE BUSINESS FOR OUR CUSTOMERS AND PARTNERS AS THE EMPLOYER OF CHOICE IN OUR SECTOR.



**SPS** STEEL  
PLATE &  
SECTIONS  
A MARUBENI-TOCHU STEEL INC COMPANY

**OUR  
VALUES**

#### INNOVATION

"We will challenge boundaries to create new opportunities to benefit our organisation and partners"

#### INSPIRATION

"We will offer an environment to promote and develop a culture of engagement, excitement and commitment in our people"

#### COLLABORATION

"We will build close and lasting relationships, working together to create value, for mutual success"

#### INTEGRITY

"We will demonstrate our core values in everything we do, promoting honesty and fairness, fostering a diverse, equal and ethical future for all"

#### EXCELLENCE

"We will continuously learn and improve, to deliver outstanding value for our customers and stakeholders"



A **MARUBENI-ITOCHU STEEL INC** COMPANY

## WHY CHOOSE SPS?

### QUALITY YOU CAN TRUST EVERY TIME.

Steel Plate & Sections is a leading steel stockholding company with over 55 years of experience. We offer a wide range of steel in a variety of styles and grades, including mild steel, stainless steel and high-yield steel. We also offer a variety of value-added services, such as cutting, bending and welding.

We are committed to providing our customers with the highest quality steel products and services at competitive prices. We have a team of experienced and knowledgeable staff who are always on hand to help our customers choose the right products for their projects. Established in 1965, SPS has long been able to call upon its substantial stocks, close working relationships with producing mills, and comprehensive forward order programmes to give total flexibility of supply. This enables SPS to meet your immediate and long-term steel requirements.

Long-established trading links within the steel industry allow SPS to offer you a complete supply service of products outside our standard product range. This service saves you time and resources.

Our sales team provides a friendly and flexible approach to your steel requirements and has a wealth of experience ensuring you get the help and advice that you need.

## OUR MISSION

At Steel Plate & Sections, our mission is to provide our customers with the best possible service and support. We are committed to being the leading supplier of steel products in the region, and we strive to exceed our customers' expectations.

## MEETING THE CHALLENGE

### STEEL SUPPLY WITH INTEGRITY

Whether you are purchasing a single item of steel or require a total project supply of many thousands of tonnes, you need a steel supplier totally dedicated to meeting the individual and varied needs of each and every customer - SPS meets this challenge.

Steel Plate & Sections has over 55 years experience in meeting the needs of:

- offshore fabrication
  - pressure vessel and boiler manufacture
  - construction
  - materials handling
  - equipment manufacture
  - bridge building
  - shipbuilding and repair
  - civil and general engineering
- and other industries throughout the world.

# QUALITY YOU CAN TRUST EVERY TIME

## CONSTRUCTION

Our experience in the oil and gas sector means SPS synchronises beautifully into the construction sector. We fully recognise the requirements from the perspectives of materials, approvals, service and quality, supplying a range of high strength plates, structural sections, and tubulars. We understand the need for and provide appropriate accreditation and full material traceability throughout the supply chain as well as the requirement for consistent and high levels of service.



## DEFENCE

With strong relationships throughout the UK defence industry, SPS has and continues to play a central role in many large projects. Our in-depth stock range and our trading partnerships across the globe, coupled with our knowledge and experience of the sector's needs, enable us to be a trusted partner in major project delivery.



## NUCLEAR

SPS has been providing steel solutions to the power industry for over 10 years – both in the UK and internationally. In that time, we have built an excellent reputation within the industry and recently provided the raw material and project management for some of the largest nuclear projects in the UK. We are a key partner to tier 1 and tier 2 clients in the power generation and decommissioning sites across the UK.



## OFFSHORE

The oil and gas industry is very exacting in its requirements, both in terms of product and quality assurance. Our stock range of offshore, marine, and high-strength structural grades in plates, structural sections, and tubulars, together with our relationships with mainstream European producers, ensures that we are ideally placed to provide all steel requirements from project start-up to completion.



## RENEWABLES

With over 50 years of extensive experience in many demanding project driven industries, our range of structural, high strength and offshore grades are used commonly by this sector. As such, we fully recognise and meet the quality assurance and project management requirements of this ever expanding and exciting sector.



## SHIPBUILDING

SPS remains the go-to supplier both domestically and globally for steel supply to the shipbuilding industry. During our near 60 years in business, SPS has successfully executed projects ranging from defence to Oil and Gas application.



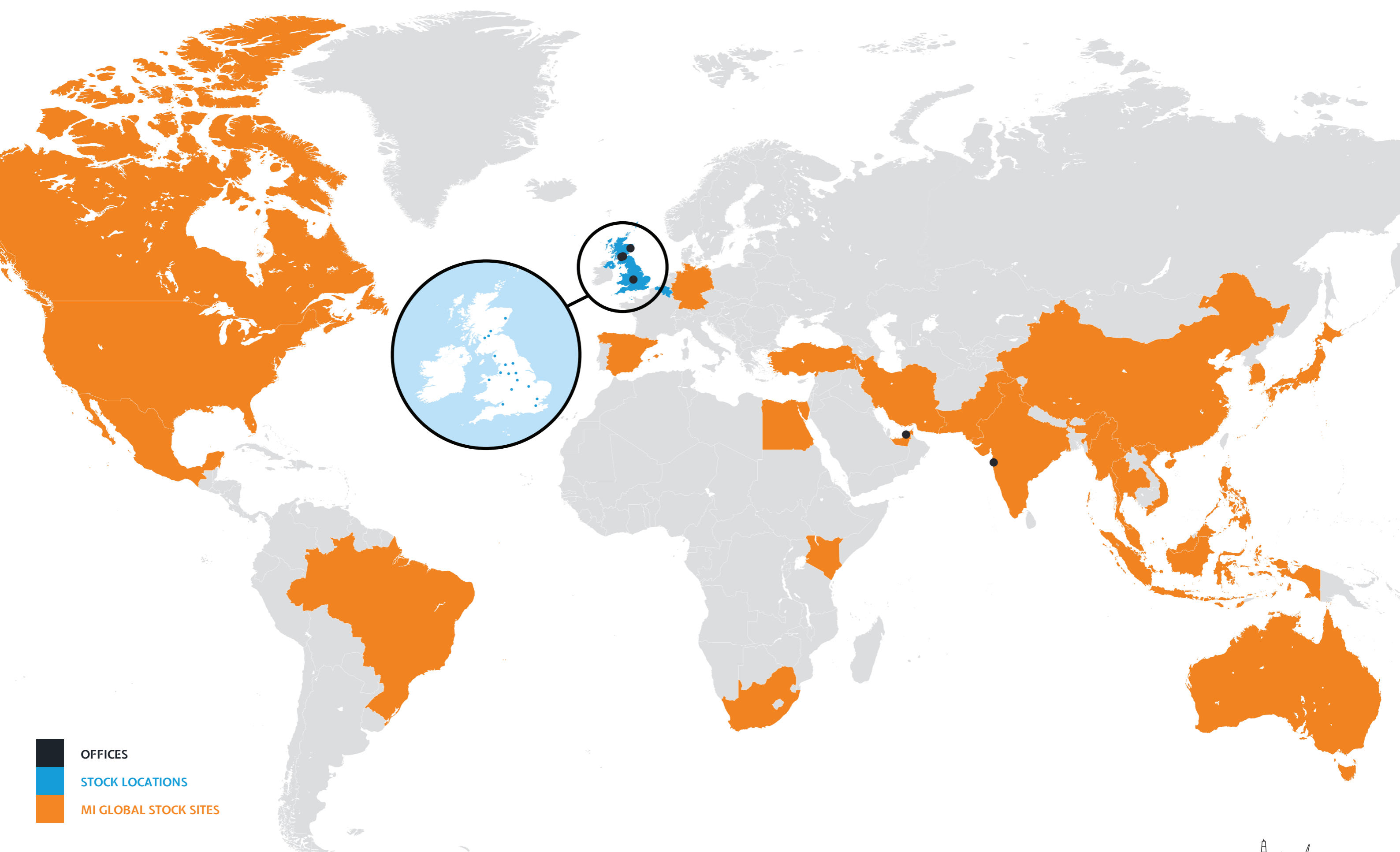
## VALUE ADDED SERVICES

Processing services available include: can rolling, profiling, cutting, drilling, milling, chamfering, bending, tee splitting, shot blasting, deburring, painting, heat treatment, mechanical and plasma coping line and flat bed profiling in plasma, hi-def and the latest laser cutting technology.



# LOCATIONS

SPS maintains steel stocks in the strategic locations of Glasgow, Aberdeen and Antwerp. We also utilise the global stock sites of the Marubeni-Itochu group to effectively execute project supply, globally.



# OFFSHORE & STRUCTURAL GRADES

SPS supplies and distributes high-strength, low-temperature steel used in the oil and gas industry.

All of our plates, pipes and sections are manufactured globally by reputable mills. Material is rolled to industry standard or to bespoke specifications, as required.

Our stock range of offshore, marine, and high-strength structural grades in plates, sections and tubulars, together with our relationships with mainstream European producers, ensures that we are ideally placed to provide all steel requirements from project start-up to completion.

All of our plates and sections are available in Standard and Non-Standard Sizes, Fully Weldable, low-temperature impact tested to -20, -40, and -50 degrees.

Through thickness testing is either carried out as standard or available as an extra: fully certified to EN 10204 3.1 or 3.2.

Additional NDT testing and third-party inspection are available. Full cutting and profiling service available.

## STEEL PLATES

## OFFSHORE PLATES



**STEEL PLATES**

SPS carries a comprehensive range of high-yield offshore and structural quality steel plates.

If you are looking for a type of steel that is soft, easy to work with, and relatively inexpensive, then mild steel plates are a good option. They are versatile materials that can be used in a wide variety of applications such as construction, manufacturing, heavy machinery and more.

**Plate Grades (3.1 & 3.2)**

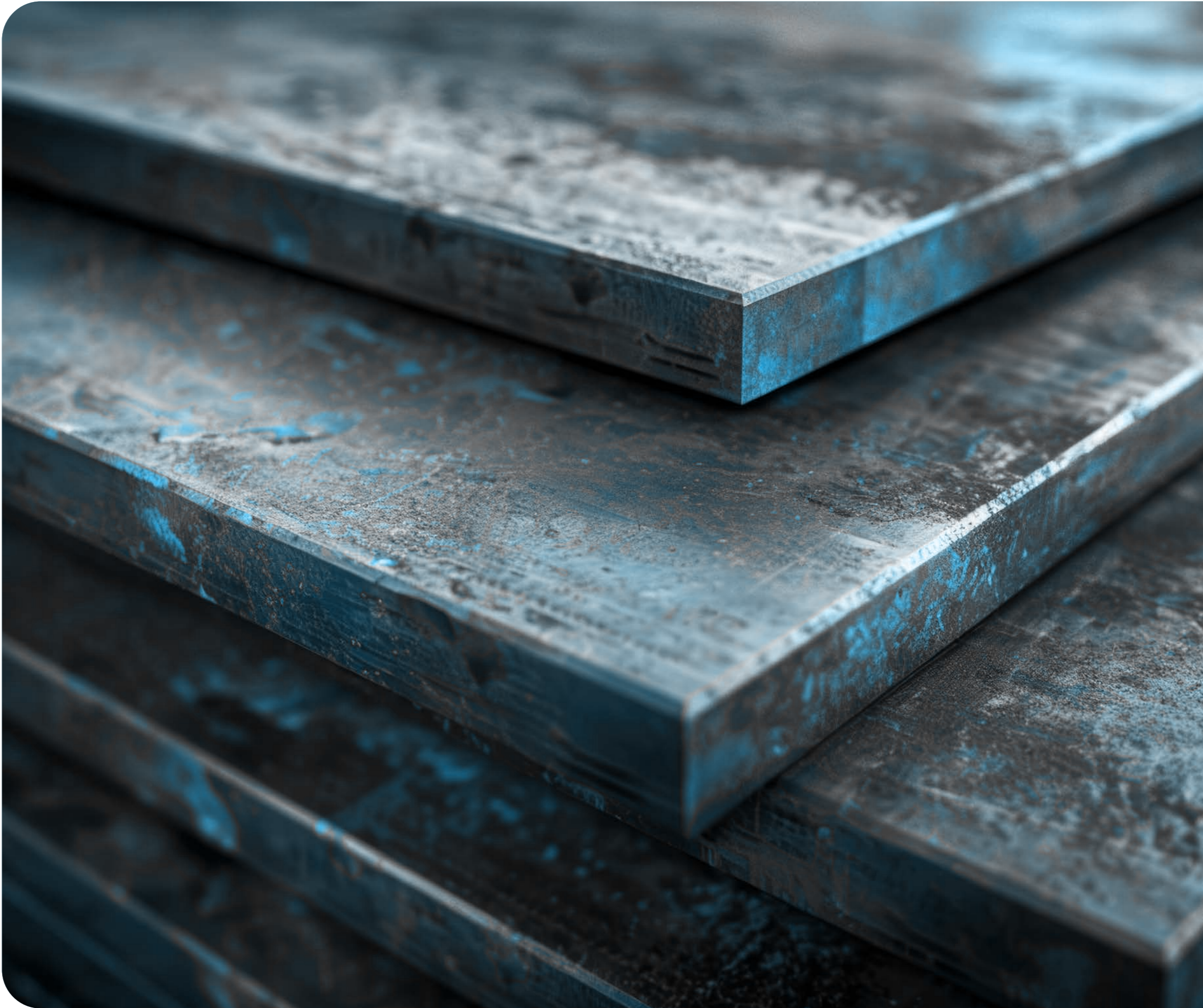
- EN10025 S355NL
- EN10225 S355NLO
- EN10025 S275/S355J2 & K2+N
- EN10028 P355GH & NL2 & NH
- Gr ASME SA516 Gr 70
- S355K2+N
- S355NL
- AH/DH/EH36

**OFFSHORE PLATES**

SPS is a leading supplier of high-quality offshore structural steels and plates for a variety of applications, including drilling platforms, oil platforms, jack-up rigs, offshore wind foundations, and much more.

**Specifications:**

- BS EN 10225 S355NLO
- BS EN 10225 S420/S460 NLO
- BS EH 36, DH36
- API 2H Grade 50
- API 2W Grade 50
- EN 10025 S355NL



# SECTION BARS & SHAPES

Since its inception, Steel Plate & Sections have held and will continue to hold a comprehensive range of steel sections.

This includes a range of columns, beams, angles, flats, rounds, and squares.

In more recent times SPS has invested heavily in an exhaustive selection of European-size sections (HEA, HEB, HEM, IPE, UPN, and UPE) to complement our original range of UK sections.

Specialising in high yield low-temperature grades including EN 10025 S355J2/ML, EN 10225 S355MLO. All material certified to EN 10204 3.1 or 3.2 as required, additional impact testing to lower temperatures, NACE hardness, NDT, and third-party inspection available on all products along with full cutting services.

UNIVERSAL COLUMNS & WIDE FLANGE COLUMNS

EUROPEAN BEAMS/EURONORM SECTIONS

UNIVERSAL BEAMS

WIDE FLANGE W BEAMS

HOT-ROLLED STEEL ANGLES

HOT-ROLLED SQUARE BAR

HOT-ROLLED ROUND BAR

HOT-ROLLED FLAT BAR

PARALLEL FLANGE ROLLED CHANNELS

UNIVERSAL COLUMNS &  
WIDE FLANGE COLUMNS

Specifications:

- BS EN 10225 MLO
  - BS EN 10025 S355 ML-50
  - BS EN 10025 S355 J2 and K2
  - BS EN 10025 S355 JR and JO
- BS EN 10025 S275 J2 and K2
  - BS EN 10025 S275 JR and JO
  - ASTM A572 GR 50/ASTM 992 GR50
  - ASTM A36



Universal Columns & Wide Flange Columns Stock Sizes

Metric Serial Size D x W x Kg/m (mm)	Depth of Section (mm)	Width of Section (mm)	Web (mm)	Flange (mm)	US Term	Imperial Series Size D x W x lb/ft (in)
152 x 152 x 23	152.4	152.4	6.1	6.8	W6	6 x 6 x 15.7
152 x 152 x 30	157.5	152.9	6.6	9.4	W6	6 x 6 x 20.0
152 x 152 x 37	161.8	154.4	8.1	11.5	W6	6 x 6 x 25.0
203 x 203 x 46	203.2	203.2	7.3	1100	W8	8 x 8 x 31.0
203 x 203 x 52	206.2	203.9	8.0	12.5	W8	8 x 8 x 35.0
203 x 203 x 60	209.6	205.2	9.3	14.2	W8	8 x 8 x 40.0
203 x 203 x 71	215.9	206.2	10.3	17.3	W8	8 x 8 x 48.0
203 x 203 x 86	222.3	208.8	23.0	20.5	W8	8 x 8 x 58.0
254 x 254 x 73	254.0	254.0	8.6	14.2	W10	10 x 10 x 49.0
254 x 254 x 89	260.4	255.9	10.5	17.3	W10	10 x 10 x 60.0
254 x 254 x 107	266.7	258.3	13.0	20.5	W10	10 x 10 x 72.0
254 x 254 x 132	276.4	261.0	15.6	25.3	W10	10 x 10 x 89.0
254 x 254 x 167	289.1	264.5	19.2	31.7	W10	10 x 10 x 112.0
305 x 305 x 97	307.8	304.8	9.9	15.4	W12	12 x 12 x 65.0
305 x 305 x 118	314.5	306.8	11.9	18.7	W12	12 x 12 x 79.0
305 x 305 x 137	320.5	308.7	13.8	21.7	W12	12 x 12 x 92.0
305 x 305 x 158	327.2	310.6	15.7	25.0	W12	12 x 12 x 106.0
305 x 305 x 198	339.9	314.1	19.2	31.4	W12	12 x 12 x 133.0
305 x 305 x 240	352.6	317.9	23.0	37.7	W12	12 x 12 x 161.0
305 x 305 x 283	365.3	321.8	26.9	44.1	W12	12 x 12 x 190.0
356 x 368 x 129	355.6	368.3	10.7	17.5	W14	14 x 14.5 x 86.0
356 x 368 x 153	362.0	370.2	12.6	20.7	W14	14 x 14.5 x 13.0
356 x 368 x 179	368.0	373.0	15.0	23.9	W14	14 x 14.5 x 120.0
356 x 368 x 202	374.7	374.4	16.8	15.0	W14	14 x 14.5 x 136.0
356 x 406 x 235	381.0	395.0	18.5	30.2	W14	14 x 16 x 158.0
356 x 406 x 287	393.7	399.0	22.6	36.5	W14	14 x 16 x 193.0
356 x 406 x 340	406.4	403.0	26.5	42.9	W14	14 x 16 x 228.0
356 x 406 x 393	419.1	407.0	30.6	49.2	W14	14 x 16 x 264.0
356 x 406 x 467	436.6	412.4	35.9	48.0	W14	14 x 16 x 314.0
356 x 406 x 551	455.7	418.5	42.0	67.5	W14	14 x 16 x 370.0
356 x 406 x 634	474.7	424.1	47.6	77.0	W14	14 x 16 x 426.0

EUROPEAN BEAMS/EURONORM SECTIONS

Specifications:

- EN 10225 S355 MLO
  - EN 10025 S355 ML
  - EN 10025 S355 J2
- EN 10025 S235 JR
  - ASTM A 572 GR 50
  - ASTM A 36



European Beams/Euronorm Sections Stock Sizes

Serial Size	Kg/m²	Depth of Section (mm)	Width of Section (mm)	Web (mm)	Flange (mm)
HE 100 A	17.1	96	100	5.0	8.0
HE 100 B	20.9	100	100	6.0	10.0
HE 100 M	42.8	120	106	12.0	20.0
HE 120 A	20.4	114	120	5.0	8.0
HE 120 B	27.4	120	120	6.5	11.0
HE 120 M	53.4	140	126	12.5	21.0
HE 140 A	25.3	133	140	5.5	8.5
HE 140 B	34.5	140	140	7.0	12.0
HE 140 M	64.8	160	146	13.0	22.0
HE 160 A	31.2	152	160	6.0	9.0
HE 160 B	43.7	160	160	8.0	13.0
HE 160 M	78.1	180	166	14.0	23.0
HE 180 A	36.4	171	180	6.0	9.5
HE 180 B	52.5	180	180	8.5	14.0
HE 180 M	91.1	200	186	14.5	24.0
HE 200 A	43.4	190	200	6.5	10.0
HE 200 B	62.8	200	200	9.0	15.0
HE 200 M	105.6	220	206	15.0	25.0
HE 220 A	51.8	210	220	7.0	11.0
HE 220 B	73.3	220	220	9.5	16.0
HE 220 M	119.9	240	226	15.5	26.0
HE 240 AA	48.6	224	240	6.5	9.0
HE 240 B	85.3	240	240	10.0	17.0
HE 240 M	160.9	270	248	18.0	23.0
HE 260 A	69.9	250	260	7.5	12.5
HE 260 B	95.3	260	260	10.0	17.5
HE 260 M	176.3	290	268	18.0	32.5
HE 280 A	78.3	270	280	8	13.0
HE 280 B	105.6	280	280	10.5	18.0
HE 280 M	193.7	310	288	18.5	33
HE 300 A	90.5	290	300	8.5	14



Serial Size	Kg/m²	Depth of Section (mm)	Width of Section (mm)	Web (mm)	Flange (mm)
HE 300 B	119.9	300	300	11	19
HE 300 C	181.4	320	305	16	29
HE 300 M	244	340	310	21	39
HE 320 A	100	310	300	9	15.5
HE 320 B	130.2	320	300	11.5	20.5
HE 320 M	251.1	359	309	21	40
HE 340 A	107.6	330	300	9.5	16.5
HE 340 B	134.0	340	300	12.0	21.5
HE 340 M	248.0	377	309	21.0	40.0
HE 360 A	112.0	350	300	10.0	17.5
HE 360 B	142.0	360	300	12.5	22.5
HE 360 M	250.0	395	308	21.0	40.0
HE 400 A	125.0	390	300	11.0	19.0
HE 400 B	155.0	400	300	13.5	24.0
HE 400 M	256.0	432	307	21.0	40.0
HE 450 A	140.0	440	300	11.5	21.0
HE 500 A	155.0	490	300	12.0	23.0
HE 500 B	187.0	500	300	14.5	28.0
HE 500 M	270.0	524	306	21.0	40.0
HE 550 A	166.0	540	300	12.5	24.0
HE 550 B	199.0	550	300	15.0	29.0
HE 550 M	278.0	572	306	21.0	40.0
HE 600 A	178.0	590	300	13.0	25.0
DIL 600	206.0	600	300	13.0	30.0
HE 600 B	212.0	600	300	15.5	30.0
HE 600 M	285.0	620	305	21.0	40.0
HE 650 A	190.0	640	300	13.5	26.0
HE 650 B	225.0	650	300	16.0	31.0
HE 650 M	293.0	668	305	21.0	40.0
HE 700 A	204.0	690	300	14.5	27.0
HE 700 B	241.0	700	300	17.0	32.0
HE 700 M	301.0	716	304	21.0	40.0
HE 800 A	224.0	790	300	15.0	28.0
HE 800 B	262.0	800	300	17.5	33.0
HE 800 M	317.0	814	303	21.0	40.0
HE 900 A	252.0	890	300	16.0	30.0
HE 900 B	291.0	900	300	18.5	35.0
HE 900 M	333.0	910	302	21.0	40.0
HE 1000 A	272.0	900	300	16.5	31.0
HE 1000 B	314.0	1000	300	19.0	36.0
HE 1000 M	349.0	1008	302	21.0	40.0
IPE 80	6.0	80.0	46.0	3.8	5.2

Serial Size	Kg/m²	Depth of Section (mm)	Width of Section (mm)	Web (mm)	Flange (mm)
IPE 100	8.1	100.0	55.0	4.1	5.7
IPE120	10.4	120.0	64.0	4.4	6.3
IPE140	12.9	140.0	73.0	4.7	6.9
IPE160	15.8	160.0	82.0	5.0	7.4
IPE180	18.8	180.0	91.0	5.3	8.0
IPE200	22.4	200.0	100.0	5.6	8.5
IPE220	26.2	220.0	110.0	5.9	9.2
IPE240	30.7	240.0	120.0	6.2	9.8
IPE270	36.1	270.0	135.0	6.6	10.2
IPE300	42.2	300.0	150.0	7.1	10.7
IPE330	49.1	330.0	160.0	7.5	11.5
IPE360	57.1	360.0	170.0	8.0	12.7
IPE400	66.3	400.0	180.0	8.6	13.5
IPE450	77.6	450.0	190.0	9.4	14.6
IPE500	90.7	500.0	200.0	10.2	16.0
IPE550	106.0	550.0	210.0	11.1	17.2
IPE600	122.0	600.0	220.0	12.0	19.0
UPN 80	8.64	80	45	6.0	8.0
UPN 100	10.6	100	50	6.0	8.5
UPN 120	13.4	120	55	7.0	9.0
UPN 140	16.0	140	60	7.0	10.0
UPN 160	18.8	160	65	7.5	10.5
UPN 180	22.0	180	70	8.0	11.0
UPN 200	25.3	200	75	8.5	11.5
UPN 220	29.4	220	80	9.0	12.5
UPN 240	33.2	240	85	9.5	13.0
UPN 260	37.9	260	90	10.0	14.0
UPN 280	41.8	280	95	10.0	15.0
UPN 300	46.2	300	100	10.0	16.0
UPN 320	59.5	320	100	14.0	17.5
UPN 350	60.6	350	100	14.0	16.0
UPN 380	63.1	380	102	13.5	16.0
UPN 400	71.8	400	110	14.0	18.0



UNIVERSAL BEAMS

Specifications:

- BS EN 10225 MLO
  - BS EN 10025 S355 ML-50
  - BS EN 10025 S355 J2 and K2
  - BS EN 10025 S355 JR and JO
- BS EN 10025 S275 J2 and K2
  - BS EN 10025 S275 JR and JO
  - ASTM A572 GR 50/ASTM 992 GR50
  - ASTM A36



Universal Beams Stock Sizes

Metric Serial Size D x W x Kg/m (mm)	Depth of Section (mm)	Width of Section (mm)	Web (mm)	Flange (mm)	US Term	Imperial Series Size D x W x lb/ft (in)
127 x 76 x 13	127	76.2	4.2	7.6	W5	5 x 3 x 9
152 x 89 x 16	152.4	88.9	4.6	7.7	W6	6 x 3.5 x 11
178 x 102 x 19	177.8	101.6	4.7	7.9	W7	7 x 4 x 13
203 x 102 x 23	203.2	101.6	5.2	9.3	W8	8 x 5.25 x 15.5
203 x 133 x 25	203.2	133.4	5.8	7.8	W8	8 x 4 x 17
203 x 133 x 30	206.8	133.8	6.3	9.6	W8	8 x 4 x 20
254 x 102 x 22	254	101.6	5.8	6.8	W10	10 x 4 x 15
254 x 102 x 25	257	101.9	6.1	8.4	W10	10 x 4 x 17
254 x 102 x 28	260.4	102.1	6.4	10	W10	10 x 4 x 19
254 x 146 x 31	251.5	146.1	6.1	8.6	W10	10 x 5.75 x 21
254 x 146 x 37	256	146.4	6.4	10.9	W10	10 x 5.75 x 25
254 x 146 x 43	259.6	147.3	7.3	12.7	W10	10 x 5.75 x 29
305 x 102 x 25	304.8	101.6	5.8	6.8	W12	12 x 4 x 16.5
305 x 102 x 28	308.9	101.9	6.1	8.9	W12	12 x 4 x 19
305 x 102 x 33	312.7	102.4	6.6	10.8	W12	12 x 4 x 22
305 x 127 x 37	303.8	123.5	7.2	10.7	W12	12 x 5 x 25
305 x 127 x 42	306.6	124.3	8	12.1	W12	12 x 5 x 28
305 x 127 x 48	310.4	125.3	8.9	14	W12	12 x 5 x 32
305 x 165 x 40	303.8	165.1	6.1	10.2	W12	12 x 6.5 x 27
305 x 165 x 46	307.1	165.7	6.7	11.8	W12	12 x 6.5 x 31
305 x 165 x 54	310.9	166.8	7.7	13.7	W12	12 x 6.5 x 36
356 x 127 x 33	348.5	125.4	5.9	8.5	W14	14 x 5 x 22
356 x 127 x 39	352.8	126	6.5	10.7	W14	14 x 5 x 26
356 x 171 x 45	352	171	6.9	9.7	W14	14 x 6.33 x 30
356 x 171 x 51	355.6	171.5	7.3	11.5	W14	14 x 6.33 x 34
356 x 171 x 57	358.6	172.1	8	13	W14	14 x 6.33 x 38
356 x 171 x 67	364	173.2	9.1	15.7	W14	14 x 6.33 x 45
406 x 140 x 39	397.3	141.8	6.3	8.6	W16	16 x 5.5 x 26
406 x 140 x 46	402.3	142.4	6.9	11.2	W16	16 x 5.5 x 31
406 x 178 x 54	402.6	177.6	7.6	10.9	W16	16 x 7 x 36
406 x 178 x 60	406.4	177.8	7.8	12.8	W16	16 x 7 x 40

Metric Serial Size D x W x Kg/m (mm)	Depth of Section (mm)	Width of Section (mm)	Web (mm)	Flange (mm)	US Term	Imperial Series Size D x W x lb/ft (in)
406 x 178 x 67	409.4	178.8	8.8	14.3	W16	16 x 7 x 45
406 x 178 x 74	412.8	179.7	9.7	16	W16	16 x 7 x 50
457 x 152 x 52	449.8	152.4	7.3	10.9	W18	18 x 6 x 35
457 x 152 x 60	454.7	152.9	8	13.3	W18	18 x 6 x 40
457 x 152 x 67	457.2	151.9	9.1	15	W18	18 x 6 x 45
457 x 152 x 74	461.3	152.7	9.9	17	W18	18 x 6 x 50
457 x 152 x 82	465.1	153.5	10.7	18.9	W18	18 x 6 x 55
457 x 191 x 67	453.6	189.9	8.5	12.7	W18	18 x 7.5 x 45
457 x 191 x 74	457.2	190.5	9.1	14.5	W18	18 x 7.5 x 50
457 x 191 x 82	460.2	191.3	9.9	16	W18	18 x 7.5 x 55
457 x 191 x 89	463.6	192	10.6	17.7	W18	18 x 7.5 x 60
457 x 191 x 98	467.4	192.8	11.4	19.6	W18	18 x 7.5 x 66
533 x 210 x 82	523.8	208.7	9.6	13.2	W21	21 x 8.5 x 55
533 x 210 x 91	533.1	209.3	10.2	15.6	W21	21 x 8.5 x 62
533 x 210 x 101	536.7	210.1	10.9	17.4	W21	21 x 8.5 x 68
533 x 210 x 109	539.5	210.7	11.6	18.8	W21	21 x 8.5 x 73
533 x 210 x 122	544.6	211.9	12.8	21.3	W21	21 x 8.5 x 82
610 x 229 x 101	602.2	227.6	10.6	14.8	W24	24 x 9 x 68
610 x 229 x 113	607.3	228.2	11.2	17.3	W24	24 x 9 x 76
610 x 229 x 125	611.9	229	11.9	19.6	W24	24 x 9 x 84
610 x 229 x 140	617	230.1	13.1	22.1	W24	24 x 9 x 94
610 x 305 x 149	609.6	304.8	11.9	19.7	W24	24 x 12 x 100
610 x 305 x 179	617.5	307	14.1	23.6	W24	24 x 12 x 120
610 x 305 x 238	633	311.5	18.6	31.4	W24	24 x 12 x 160
686 x 254 x 125	677.9	253	11.7	16.2	W27	27 x 10 x 84
686 x 254 x 140	683.5	253.7	12.4	19	W27	27 x 10 x 94
686 x 254 x 152	687.6	254.5	13.2	21	W27	27 x 10 x 102
686 x 254 x 170	692.9	255.8	14.5	23.7	W27	27 x 10 x 114
762 x 267 x 147	753.9	265.3	12.9	17.5	W30	30 x 10.5 x 99
762 x 267 x 173	762	266.7	14.3	21.6	W30	30 x 10.5 x 116
762 x 267 x 197	769.6	268	15.6	25.4	W30	30 x 10.5 x 132
838 x 292 x 176	834.9	291.6	14	18.8	W33	33 x 11.5 x 118
838 x 292 x 194	840.7	292.4	14.7	21.7	W33	33 x 11.5 x 130
838 x 292 x 226	850.9	298.3	16.1	26.8	W33	33 x 11.5 x 152
914 x 305 x 201	903	303.4	15.2	20.2	W36	36 x 12 x 135
914 x 305 x 224	910.3	304.1	15.9	23.9	W36	36 x 12 x 150
914 x 305 x 253	918.5	305.5	17.3	27.9	W36	36 x 12 x 170
914 x 305 x 289	926.6	307.8	19.6	32	W36	36 x 12 x 194
914 x 305 x 313	932	309	21.1	34.5	W36	36 x 12 x 210
914 x 419 x 343	911.4	481.5	19.4	32	W36	36 x 16.5 x 230
914 x 419 x 388	920.5	420.5	21.5	36.6	W36	36 x 16.5 x 262



WIDE FLANGE W BEAMS

Many of the UK specification beams and columns held at SPS can be used as substitutes for the American wide flange W sections.

Where replacements can't be made, SPS will use its long-established trading links within the steel industry to offer complete supply. All material certified to EN 10204 3.1 or 3.2 as required, additional NDT and third-party inspection available, as well as full cutting services..

HOT-ROLLED STEEL ANGLES

Specifications:

- BS EN 10025 S355 J2



Hot-Rolled Steel Angles Stock Sizes

Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>
30 x 30 x 5	2.18	75 x 50 x 6	5.65	100 x 100 x 10	15.0	150 x 150 x 15	33.8
40 x 40 x 4	2.42	75 x 50 x 8	7.39	100 x 100 x 12	17.8	150 x 150 x 18	40.1
40 x 40 x 5	2.97	80 x 60 x 7	7.30	100 x 100 x 15	21.9	200 x 100 x 10	23.0
40 x 40 x 6	3.52	80 x 60 x 8	8.34	120 x 120 x 8	14.7	200 x 100 x 12	27.3
45 x 45 x 5	3.38	80 x 80 x 6	7.39	120 x 120 x 10	18.2	200 x 100 x 15	33.7
50 x 50 x 5	3.77	80 x 80 x 8	9.63	120 x 120 x 12	21.6	200 x 150 x 12	32.0
50 x 50 x 6	4.47	80 x 80 x 10	11.9	120 x 120 x 15	26.6	200 x 150 x 15	39.6
50 x 50 x 8	5.32	90 x 90 x 6	8.90	125 x 75 x 8	12.2	200 x 150 x 18	47.1
60 x 60 x 5	4.57	90 x 90 x 8	10.9	125 x 75 x 10	15.0	200 x 200 x 16	48.5
60 x 60 x 6	5.42	90 x 90 x 10	13.4	125 x 75 x 12	17.8	200 x 200 x 18	54.3
60 x 60 x 8	7.09	90 x 90 x 12	15.9	150 x 75 x 10	17.0	200 x 200 x 20	59.9
60 x 60 x 10	8.69	100 x 65 x 7	8.77	150 x 75 x 12	20.2	200 x 200 x 24	71.1
65 x 50 x 5	4.35	100 x 65 x 8	9.94	150 x 75 x 15	24.8	250 x 250 x 20	75.7
65 x 50 x 6	5.16	100 x 65 x 10	10.3	150 x 90 x 10	18.2	250 x 250 x 25	95.16
65 x 50 x 8	6.74	100 x 75 x 8	10.6	150 x 90 x 12	21.6	250 x 250 x 26	97.0
70 x 70 x 6	6.38	100 x 75 x 10	13.0	150 x 90 x 15	26.6	250 x 250 x 28	104
70 x 70 x 8	8.36	100 x 75 x 12	15.4	150 x 150 x 10	23.0	250 x 250 x 35	130
70 x 70 x 10	10.3	100 x 100 x 8	12.2	150 x 150 x 12	27.3		

HOT-ROLLED SQUARE BAR

Specifications:

- BS EN 10025 S355 J2



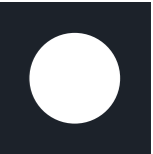
Hot-Rolled Sqaure Bar Stock Sizes

Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>
16	2.01	20	3.14	22	3.79	25	4.91
32	8.04	38	11.34	40	12.56	45	15.90
50	19.63						

HOT-ROLLED ROUND BAR

Specifications:

- BS EN 10025 S355 J2



Hot-Rolled Round Bar Stock Sizes

Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>
13	1.04	80	39.46	16	1.58	90	49.94
20	2.47	100	61.65	25	3.85	105	67.97
32	6.31	110	74.60	38	8.90	120	88.78
40	9.86	125	96.33	45	12.48	140	12.83
50	15.41	160	157.82	60	22.19	180	199.75
65	26.05	200	246.60	75	34.68		

HOT-ROLLED FLAT BAR

Specifications:

- BS EN 10025 S355 J2



Hot-Rolled Flat Bar Stock Sizes

Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>	Size (mm)	kg/m <sup>2</sup>
25 x 6	1.18	60 x 15	7.07	80 x 10	6.28	110 x 10	8.64
25 x 8	1.57	60 x 20	9.42	80 x 12	7.54	110 x 15	12.95
25 x 10	1.96	60 x 25	11.78	80 x 15	9.42	120 x 10	9.42
40 x 6	1.88	65 x 10	5.10	80 x 25	15.70	130 x 8	8.16
40 x 10	3.14	65 x 12	6.12	90 x 6	4.24	130 x 12	12.25
40 x 15	4.71	65 x 15	7.65	90 x 15	10.60	150 x 6	7.07
50 x 6	2.36	70 x 12	6.59	90 x 20	14.13	150 x 10	11.78
50 x 8	3.14	70 x 20	10.99	100 x 6	4.71	150 x 12	14.13
50 x 10	3.93	75 x 6	3.53	100 x 8	6.28	150 x 15	17.66
50 x 12	4.71	75 x 8	4.71	100 x 10	7.85	150 x 20	23.55
50 x 15	5.89	75 x 10	5.89	100 x 12	9.42	150 x 25	29.44
50 x 20	7.85	75 x 12	7.07	100 x 15	11.78	200 x 10	15.70
50 x 25	9.81	75 x 15	8.83	100 x 20	15.70	200 x 15	23.55
60 x 10	4.71	75 x 20	11.78	100 x 25	19.63	200 x 20	31.40
60 x 12	5.65						

PARALLEL FLANGE ROLLED CHANNELS

Specifications:

- BS EN 10025 S355 J2



Parallel Flange Rolled Channels Stock Sizes

Designation Serial Size (mm)	Mass (kg/m)	Depth of Section (mm)	Width of Section (mm)	Web (mm)	Flange (mm)
100 x 50 x 10	10.2	100	50	5.0	8.5
125 x 65 x 15	14.8	125	65	5.5	9.5
150 x 75 x 18	17.9	150	75	5.5	10.0
150 x 90 x 24	23.9	150	90	6.5	12.0
180 x 75 x 20	20.3	180	75	6.0	10.5
180 x 90 x 26	26.1	180	90	6.5	12.5
200 x 75 x 23	23.4	200	75	6.0	12.5
200 x 90 x 30	29.7	200	90	7.0	14.0
230 x 75 x 26	25.7	230	75	6.5	12.5
230 x 90 x 32	32.2	230	90	7.5	14.0
260 x 75 x 28	27.6	260	75	7.0	12.0
260 x 90 x 35	34.8	260	90	8.0	14.0
300 x 90 x 41	41.4	300	90	9.0	15.5
300 x 100 x 46	45.5	300	100	9.0	16.5
380 x 100 x 54	54.0	380	100	9.5	17.5
430 x 100 x 64	64.4	430	100	11.0	19.0



# PIPES, TUBULARS & HOLLOW SECTIONS

SPS range of pipes, tubes and hollow sections includes structural high yield seamless, SAW tubes, LWP, square, rectangular and circular hollow sections in high yield low temperature offshore specification grades.

Supplied with a yield range between 50Ksi to 100Ksi, low temperature impact tested to -20, -40 and -50°C. All material fully certified to EN 10204 3.1 or 3.2 as required. Additional testing services (UKAS approved test house).

Available in random and double random lengths.

## **WATER & GAS TRANSPORTATION**

Pipes are used to transport water and gas over long distances. They are also used to distribute water and gas to homes and businesses.

## **OIL TRANSPORTATION**

Pipes are used to transport oil and gas from oil and gas wells to refineries and processing plants.

## **CONSTRUCTION**

Scaffolding, railings and bridges are an ideal use for pipes in a construction environment due to their high durability.

## **AUTOMOTIVE**

Our pipes are ideal for use in plenty of automotive applications, such as exhaust pipes, suspension components and roll cages.

## **AEROSPACE**

Hollow Sections are found to be applicable in many areas from Aerospace because of their advanced properties including heat resistance, low weight and durability.

## **MACHINERY**

Our steel hollows can be used in a variety of machinery applications such as machine frames, tool bodies and engine components.

## **STRUCTURAL SEAMLESS PIPE**

## **SUBMERGED ARC WELDED (SAW) PIPE**

## **CIRCULAR HOLLOW SECTIONS**

## **RECTANGULAR HOLLOW SECTIONS**

## **SQUARE HOLLOW SECTIONS**

STRUCTURAL SEAMLESS PIPE

Structural seamless pipe is steel that is produced without a weld seam. This makes them stronger and more durable than welded pipe, and they are often used in applications where strength and reliability is important.

Structural seamless pipes are available in a variety of sizes and materials, and can be used in a wide range of applications.

Structural Seamless Pipe Stock Sizes

Size (mm)	Mass per metre (kg)	Size (mm)	Mass per metre (kg)
48.3 x 5.08	5.41	323.8 x 10.31	79.71
48.3 x 7.14	7.25	323.8 x 12.70	97.44
48.3 x 10.16	9.55	323.8 x 14.27	109.15
60.3 x 3.91	5.44	323.8 x 16.00	121.45
60.3 x 5.54	7.43	323.8 x 17.48	132.05
60.3 x 8.74	11.11	323.8 x 19.05	143.17
60.3 x 11.07	13.47	323.8 x 25.40	186.92
88.9 x 5.49	11.31	323.8 x 31.75	228.68
88.9 x 7.62	15.27	323.8 x 33.34	238.82
88.9 x 11.13	21.35	323.8 x 38.10	268.45
88.9 x 15.24	27.68	355.6 x 9.52	81.25
114.3 x 6.02	16.08	355.6 x 10.31	87.79
114.3 x 8.56	22.32	355.6 x 12.70	107.4
114.3 x 11.10	28.25	355.6 x 15.90	133.2
114.3 x 13.49	33.54	355.6 x 19.05	158.11
114.3 x 17.12	41.03	355.6 x 25.40	206.84
114.3 x 25.40	55.69	355.6 x 31.75	253.58
141.3 x 6.60	21.93	355.6 x 35.72	281.79
141.3 x 8.70	28.45	355.6 x 50.80	381.86
141.3 x 9.52	30.94	406.4 x 12.70	123.31
141.3 x 12.70	40.28	406.4 x 14.27	138.00
141.3 x 15.88	49.12	406.4 x 15.90	153.12
141.3 x 19.05	57.43	406.4 x 19.05	181.98
141.3 x 25.40	72.60	406.4 x 20.60	196.00
168.3 x 7.11	28.26	406.4 x 25.40	238.66
168.3 x 9.52	37.28	406.4 x 31.75	293.35
168.3 x 10.97	42.56	406.4 x 38.10	346.06
168.3 x 12.70	48.73	406.4 x 50.80	445.50
168.3 x 14.27	54.31	457.2 x 9.52	105.11
168.3 x 16.00	60.10	457.2 x 12.70	139.22
168.3 x 17.50	65.08	457.2 x 16.00	174.09
168.3 x 18.30	67.7	457.2 x 19.05	205.84

Seamless Pipe Stock Range

1" (33.4mm) – 24" (610mm) O/D ,with extensive wall thickness combinations.

Specifications:

- API 5L X52 PSL2
- L360 PSL2
- EN10225 S355NLHHO
- EN10225 S355QLHHO
- EN10210 S355J2H & S355NLH
- A333 Gr6 / NORSOK MDS-Y22 Rev6.

Certification:

- EN10204, 3.2

Size (mm)	Mass per metre (kg)	Size (mm)	Mass per metre (kg)
168.3 x 21.95	79.22	457.2 x 25.40	270.48
168.3 x 25.40	89.51	457.2 x 31.80	333.13
193.7 x 8.00	36.64	457.2 x 38.10	393.79
193.7 x 10.00	45.3	457.2 x 45.24	459.62
193.7 x 12.70	56.7	457.2 x 50.80	509.14
193.7 x 16.00	70.12	508 x 12.70	155.13
219.1 x 8.18	42.55	508 x 15.90	192.96
219.1 x 10.31	53.09	508 x 19.05	229.71
219.1 x 12.70	64.65	508 x 25.40	302.30
219.1 x 15.90	79.68	508 x 31.80	373.45
219.1 x 19.05	93.99	508 x 38.10	441.52
219.1 x 23.01	111.27	508 x 50.80	572.78
219.1 x 25.40	121.33	559 x 12.70	171.10
219.1 x 31.75	146.7	559 x 15.90	212.96
244.5 x 8.00	46.66	559 x 19.05	253.67
244.5 x 10.00	57.83	559 x 25.40	334.25
244.5 x 12.70	72.6	559 x 31.75	412.84
244.5 x 16.00	90.16	559 x 38.10	489.44
244.5 x 19.05	105.92	559 x 50.80	636.68
244.5 x 25.40	137.25	610 x 12.70	187.08
273 x 9.27	60.29	610 x 15.90	232.63
273 x 12.70	81.53	610 x 19.05	277.65
273 x 15.90	100.81	610 x 20.60	299.43
273 x 19.05	119.31	610 x 25.40	366.20
273 x 25.40	155.1	610 x 31.80	452.77
273 x 28.58	172.27	610 x 38.10	537.36
273 x 31.75	188.9	610 x 50.80	700.57
273 x 40.00	229.85	660 x 25.40	397.49
323.8 x 9.52	73.79	660 x 31.80	492.66

S.A.W SUBMERGED  
ARC WELDED PIPE

SPS carries a standard range of high-yield structural pipe in these specifications. Supplied with a yield range between 50Ksi – 100Ksi, low-temperature impact tested to –20°C, –40°C and -50°C. All material is fully certified to EN 10204 3.1 or 3.2 as required. Additional testing services (NAMAS-approved test house). Available in random and double-random lengths.

Welded tubulars are available as required up to 196" – 5000mm O/D and up to 200mm thick. Supplied in lengths up to 12m without circwelds and multiple lengths with circwelds up to 120m.

We supply ultra-long length tubulars up to 120m long for applications including complete jacket leg sections, jack-up legs and racks, jacking piles and other piling applications.

These can be supplied with ancillary fabricated steelwork including crows nests, cradles, lifting lugs, and other fabricated additions to the client’s full specification, design and drawings.

These ultra-long length tubulars are produced in specifications as required and are shipped worldwide. All the particular and special logistics of shipping such long lengths are dealt with, including special lift vessels to ensure correct handling at the port of loading and destination.



CIRCULAR HOLLOW SECTIONS

Circular hollow sections (CHS) are a type of steel section that is circular in cross-section but with a hollow centre. They are available in a variety of sizes, and they are often used in applications where strength and weight are important, such as scaffolding and machinery.

Specifications:

- EN10219 S355J2H
- EN10210 S355J2H
- EN10210 S355NH
- EN10210 S355NLH
- EN10225 S355NLHHO



Circular Hollow Sections Stock Sizes

Size (mm)	Kg/m <sup>2</sup>	Size (mm)	Kg/m <sup>2</sup>	Size (mm)	Kg/m <sup>2</sup>
21.3 x 3.2	1.43	168.3 x 5.0	20.1	323.9 x 8.0	62.3
26.9 x 3.2	1.87	168.3 x 6.3	25.2	323.9 x 10.0	77.4
33.7 x 2.6	1.99	168.3 x 8.0	31.6	323.9 x 12.5	96.0
33.7 x 3.2	2.41	168.3 x 10.0	39.0	323.9 x 16.0	121.0
33.7 x 4.0	2.93	168.3 x 12.5	48.0	355.6 x 8.0	68.6
42.4 x 2.6	2.55	193.7 x 5.0	23.3	355.6 x 10.0	85.2
42.4 x 3.2	3.09	193.7 x 6.3	29.1	355.6 x 12.5	106.0
42.4 x 4.0	3.79	193.7 x 8.0	36.6	355.6 x 16.0	134.0
48.3 x 3.2	3.56	193.7 x 10.0	45.3	406.4 x 10.0	97.8
48.3 x 4.0	4.37	193.7 x 12.5	55.9	406.4 x 12.5	121.0
48.3 x 5.0	5.34	219.1 x 5.0	26.4	406.4 x 16.0	154.0
60.3 x 3.2	4.51	219.1 x 6.3	33.1	457.0 x 10.0	110.0
60.3 x 4.0	5.55	219.1 x 8.0	41.6	457.0 x 12.5	137.0
60.3 x 5.0	6.82	219.1 x 10	51.6	457.0 x 16.0	174.0
76.1 x 3.2	5.75	219.1 x 12.5	63.7	508.0 x 10.0	123.0
76.1 x 4.0	7.11	219.1 x 16.0	80.1	508.0 x 12.5	153.0
76.1 x 5.0	8.77	244.5 x 6.3	37	508.0 x 16.0	194.0
88.9 x 3.2	6.76	244.5 x 8.0	46.7	193.7 x 16.0	70.1
88.9 x 4.0	8.38	244.5 x 10.0	57.8	219.1 x 20.0	98.2
88.9 x 5.0	10.3	244.5 x 12.5	71.5	244.5 x 20.0	111.0
114.3 x 3.6	9.83	244.5 x 16.0	90.2	273.0 x 20.0	125.0
114.3 x 5.0	13.5	273.0 x 6.3	41.4	323.9 x 20.0	150.0
114.3 x 6.3	16.8	273.0 x 8.0	52.3	355.6 x 20.0	166.0
139.7 x 5.0	16.6	273.0 x 10	64.9	406.4 x 20.0	191.0
139.7 x 6.3	20.7	273.0 x 12.5	80.3	406.4 x 25.0	235.0
139.7 x 8.0	26.0	273.0 x 16.0	101.0	457.0 x 20.0	216.0
139.7 x 10.0	32.0	323.9 x 6.3	49.3	457.0 x 25.0	266.0

RECTANGULAR HOLLOW SECTIONS

Rectangular hollow sections (RHS) are a type of steel section that is rectangular in cross-section but with a hollow centre. They are available in a variety of sizes and are made by rolling a steel plate into a rectangular shape and then welding the edges together. This process produces a strong and lightweight section that is also relatively easy to work with.

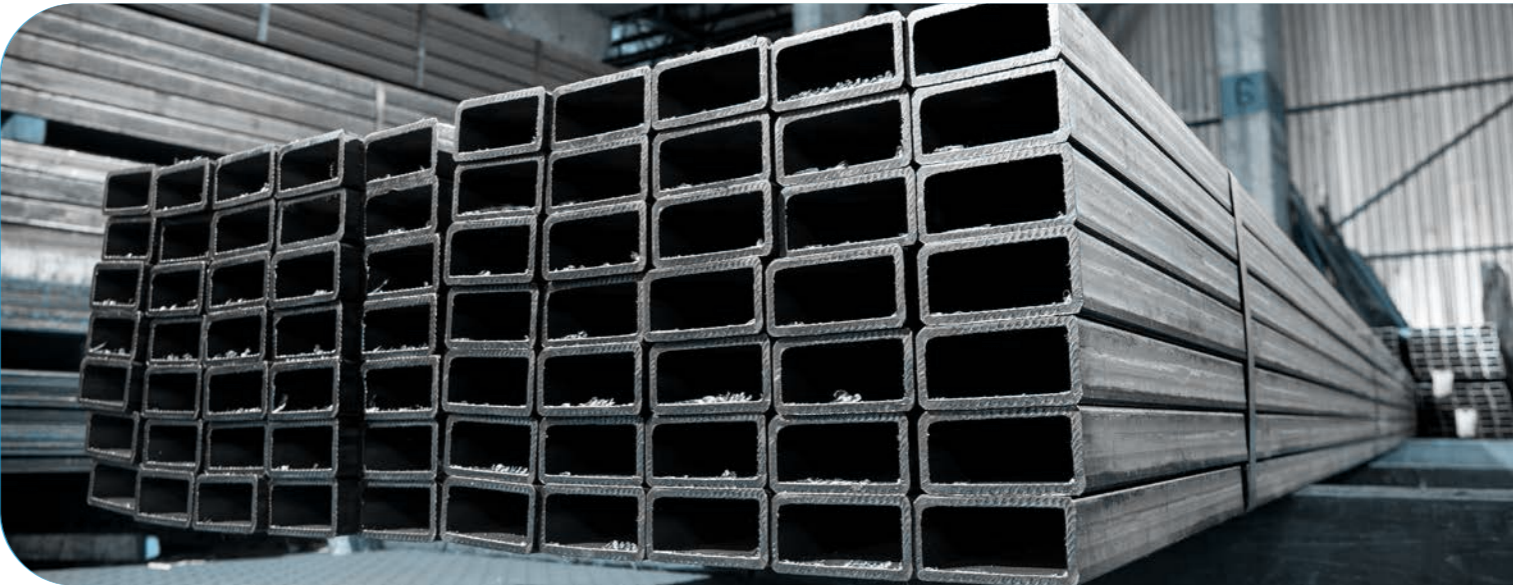
Specifications:

- EN10219 S355J2H
- EN10210 S355J2H
- EN10210 S355NH
- EN10210 S355NLH
- EN10225 S355NLHHO



Rectangular Hollow Sections Stock Sizes

Size (mm)	Kg/m <sup>2</sup>	Size (mm)	Kg/m <sup>2</sup>	Size (mm)	Kg/m <sup>2</sup>
50 x 30 x 2.5	2.92	120 x 60 x 5.0	13.3	200 x 100 x 12.5	53.4
50 x 30 x 3.0	3.45	120 x 60 x 6.3	16.4	250 x 150 x 6.3	38.2
50 x 30 x 3.2	3.66	120 x 80 x 5.0	14.8	250 x 150 x 8.0	48.0
60 x 40 x 3.2	4.66	120 x 80 x 6.3	18.4	250 x 150 x 10.0	59.3
60 x 40 x 4.0	5.72	120 x 80 x 8.0	22.9	250 x 150 x 12.5	73.0
60 x 40 x 5.0	6.97	120 x 80 x 10.0	27.9	250 x 150 x 16.0	91.5
80 x 40 x 3.2	5.67	150 x 100 x 5.0	18.7	300 x 200 x 8.0	65.0
80 x 40 x 4.0	6.97	150 x 100 x 6.3	23.3	300 x 200 x 10.0	75.0
80 x 40 x 5.0	8.54	150 x 100 x 8.0	29.1	300 x 200 x 12.5	92.6
90 x 50 x 3.6	7.46	150 x 100 x 10.0	35.7	300 x 200 x 16.0	117.0
90 x 50 x 5.0	10.10	160 x 80 x 5.0	18.0	400 x 200 x 10.0	90.7
100 x 50 x 3.2	7.18	160 x 80 x 6.3	22.3	400 x 200 x 12.5	112.0
100 x 50 x 4.0	8.86	160 x 80 x 8.0	27.9	400 x 200 x 16.0	142.0
100 x 50 x 5.0	10.90	160 x 80 x 10.0	34.2	450 x 250 x 10.0	106.0
100 x 50 x 6.3	13.40	200 x 100 x 5.0	22.7	450 x 250 x 12.5	132.0
100 x 60 x 3.6	8.59	200 x 100 x 6.3	28.3	450 x 250 x 16.0	167.0
100 x 60 x 5.0	11.70	200 x 100 x 8.0	35.4	500 x 300 x 12.5	152.0
100 x 60 x 6.3	14.40	200 x 100 x 10.0	43.6	500 x 300 x 16.0	192.0



SQUARE HOLLOW SECTIONS

Square hollow sections (SHS) are a type of steel section that is square in cross-section, but with a hollow centre. Hollow steel sections are commonly used in welded steel frames and columns. They are also regularly used as steel support beams, due to their immense strength.

Specifications:

- EN10219 S355J2H
- EN10210 S355J2H
- EN10210 S355NH
- EN10210 S355NLH
- EN10225 S355NLHHO



Square Hollow Sections Stock Sizes

Size (mm)	Kg/m <sup>2</sup>	Size (mm)	Kg/m <sup>2</sup>	Size (mm)	Kg/m <sup>2</sup>
40 x 40 x 3.0	3.5	100 x 100 x 5.0	14.8	200 x 200 x 6.3	38.2
40 x 40 x 3.2	3.7	100 x 100 x 6.3	18.4	200 x 200 x 8.0	48.0
40 x 40 x 4.0	4.5	100 x 100 x 8.0	23.0	200 x 200 x 10.0	59.3
50 x 50 x 3.0	4.4	100 x 100 x 10.0	27.9	200 x 200 x 12.5	73.0
50 x 50 x 3.2	4.7	120 x 120 x 5.0	18.0	200 x 200 x 16.0	91.5
50 x 50 x 4.0	5.7	120 x 120 x 6.3	22.3	250 x 250 x 6.3	48.1
50 x 50 x 5.0	7.0	120 x 120 x 8.0	27.9	250 x 250 x 8.0	60.5
60 x 60 x 3.2	5.7	120 x 120 x 10.0	34.2	250 x 250 x 10.0	75.0
60 x 60 x 4.0	7.0	120 x 120 x 12.5	41.6	250 x 250 x 12.5	92.6
60 x 60 x 5.0	8.5	150 x 150 x 5.0	22.7	250 x 250 x 16.0	117.0
60 x 60 x 6.3	10.5	150 x 150 x 6.3	28.3	300 x 300 x 8.0	73.1
70 x 70 x 3.6	7.5	150 x 150 x 8.0	35.4	300 x 300 x 10.0	90.7
70 x 70 x 5.0	10.1	150 x 150 x 10.0	43.6	300 x 300 x 12.5	112.0
70 x 70 x 6.3	12.5	150 x 150 x 12.5	53.4	300 x 300 x 16.0	142.0
80 x 80 x 3.6	8.6	150 x 150 x 16.0	66.4	350 x 350 x 8.0	85.7
80 x 80 x 5.0	11.7	180 x 180 x 5.0	27.4	350 x 350 x 12.5	132.0
80 x 80 x 6.3	14.4	180 x 180 x 6.3	34.2	350 x 350 x 16.0	167.0
90 x 90 x 3.6	9.7	180 x 180 x 8.0	43.0	400 x 400 x 10.0	122.0
90 x 90 x 5.0	13.3	180 x 180 x 10.0	53.0	400 x 400 x 12.5	152.0
90 x 90 x 6.3	16.4	180 x 180 x 12.5	65.2	400 x 400 x 16.0	192.0
100 x 100 x 4.0	12.0	180 x 180 x 16.0	81.4		



Pipe Schedules - Diameters - Wall Thicknesses - Weights

Nominal Pipe Size (Inches)	O/d (mm)	Standard		Extra Strong		Double Extra Strong		Schedule 10		Schedule 20		Schedule 30		Schedule 40		Schedule 60		Schedule 80		Schedule 100		Schedule 120		Schedule 140		Schedule 160	
		Wall	Kg/m	Wall	Kg/m	Wall	Kg/m	Wall	Kg/m	Wall	Kg/m	Wall	Kg/m	Wall	Kg/m	Wall	Kg/m	Wall	Kg/m	Wall	Kg/m	Wall	Kg/m	Wall	Kg/m	Wall	Kg/m
1/2	21.3	2.77	1.27	3.73	1.62	7.47	2.55							2.77	1.27			3.73	1.62							4.78	1.95
3/4	26.7	2.87	1.69	3.91	2.20	7.82	3.64							2.87	1.69			3.91	2.20							5.56	2.90
1	33.4	3.38	2.50	4.55	3.24	9.09	5.45							3.38	2.50			4.55	3.24							6.35	4.24
1 1/4	42.2	3.56	3.39	4.85	4.47	9.70	7.77							3.56	3.39			4.85	4.47							6.35	5.61
1 1/2	48.3	3.68	4.05	5.08	5.41	10.15	9.56							3.68	4.05			5.08	5.41							7.14	7.25
2	60.3	3.91	5.44	5.54	7.48	11.07	13.44							3.91	5.44			5.54	7.48							8.74	11.11
2 1/2	73	5.16	8.63	7.01	11.41	14.02	20.39							5.16	8.63			7.01	11.41							9.53	14.92
3	88.9	5.49	11.29	7.62	15.27	15.24	27.68							5.49	11.29			7.62	15.27							11.13	21.35
3 1/2	101.6	5.74	13.57	8.08	18.63									5.74	13.57			8.08	18.63								
4	114.3	6.02	16.07	8.56	22.32	17.12	41.03							6.02	16.07			8.56	22.32			11.13	28.32			13.49	33.54
5	141.3	6.55	21.77	9.53	30.97	19.05	57.43							6.55	21.77			9.53	30.97			12.70	40.28			15.88	49.11
6	168.3	7.11	28.26	10.97	42.56	21.95	79.22							7.11	28.26			10.97	42.56			14.27	54.20			18.28	67.56
8	219.1	8.18	42.55	12.70	64.64	22.23	107.92			6.35	33.31	7.04	36.81	8.18	42.55	10.31	53.08	12.70	64.64	15.09	75.92	18.26	90.44	20.62	100.92	23.01	111.27
10	273.1	9.27	60.31	12.70	81.55	25.40	155.15			6.35	41.77	7.80	51.03	9.27	60.31	12.70	81.55	15.09	96.01	18.26	114.75	21.44	133.06	25.40	155.15	28.58	172.33
12	323.9	9.53	73.88	12.70	97.46	25.40	186.97			6.35	49.73	8.38	65.20	10.31	79.73	14.27	108.96	17.48	132.08	21.44	159.91	25.40	186.97	28.56	208.14	33.32	238.76
14	355.6	9.53	81.33	12.70	107.39			6.35	54.69	7.92	67.90	9.53	81.33	11.13	94.55	15.09	126.71	19.05	158.10	23.83	194.96	27.79	224.65	31.75	253.56	35.71	281.70
16	406.4	9.53	93.27	12.70	123.30			6.35	62.64	7.92	77.83	9.53	93.27	12.70	123.30	16.66	160.12	21.44	203.53	26.19	245.56	30.95	286.64	36.53	333.19	40.49	365.35
18	457	9.53	105.16	12.70	139.15			6.35	70.57	7.92	87.71	11.13	122.38	14.27	155.80	19.05	205.74	23.83	254.55	29.36	309.62	34.93	363.56	39.57	408.26	45.24	459.37
20	508	9.53	117.50	12.70	155.12			6.35	78.55	9.53	117.15	12.70	156.12	15.09	183.42	20.62	247.83	26.19	311.17	32.54	381.53	38.10	441.49	44.45	508.11	50.01	564.81
24	610	9.53	141.12	12.70	187.06			6.35	94.53	9.53	141.12	14.27	209.64	17.48	255.41	24.61	355.26	30.96	442.08	36.89	547.71	48.02	640.03	52.37	720.15	59.54	808.22



# SHIPBUILDING

SPS have been tried and tested to the harshest of conditions, with the tightest of delivery program and deadlines. Through global adversity, SPS stands firm and delivers; on time and within budget. Our experienced commercial and project operations team have worked on some of the largest shipbuilding projects of the last millennia. Our experience of MoD/ defence projects has defined us as the logical solution and the reliable, dependable supplier for complex operations, meticulous attention to detail and the dedication to succeed for all stakeholders. Our 145 year history, built on the banks of shipbuilding and marine gives SPS and the BM Steel Group a unique fourteen decades experience of strict quality control and delivery.



Bulbs Stock Sizes



Size (mm)	Kg/m	Size (mm)	Kg/m	Size (mm)	Kg/m
60x4	3.11	80x5	4.42	80x6	5.07
80x7	5.73	100x6	6.33	100x7	7.13
100x8	7.97	120x6	7.60	120x7	8.58
120x8	9.57	140x7	10.1	140x8	11.2
140x10	13.5	160x7	11.9	160x8	13.2
160x9	14.6	160x11.5	18.0	180x8	15.4
180x9	16.9	180x10	18.3	200x9	19.2
200x10	20.9	200x11	22.6	200x12	24.1
220x10	23.7	220x11	25.5	220x12	27.2
240x10	26.4	240x11	28.5	240x12	30.5
260x10	29.3	260x11	31.5	260x12	33.7
280x11	34.9	280x12	37.1	280x13	39.4
300x11	38.1	300x12	40.6	300x13	42.4
320x12	44.2	320x13	45.9	320x14	49.5
340x12	47.9	340x13	50.8	340x14	53.5
340x15	56.2	370x13	56.8	370x14	58.2
370x15	62.9	370x16	64.7	400x13	63.2
400x14	65.2	400x15	68.3	400x16	71.4
430x14	72.0	430x15	75.4	430x17	82.3
430x20	92.6	260x10	29.3	260x11	31.5
260x12	33.7	280x11	34.9	280x12	37.1
280x13	39.4	300x11	38.1	300x12	40.6
300x13	42.4	320x12	44.2	320x13	45.9
320x14	49.5	340x12	47.9	340x13	50.8
340x14	53.5	340x15	56.2	370x13	56.8
370x14	58.2	370x15	62.9	370x16	64.7
400x13	63.2	400x14	65.2	400x15	68.3
400x16	71.4	430x14	72.0	430x15	75.4
430x17	82.3	430x20	92.6		

Equal Angles



Size (mm)	Kg/m	Size (mm)	Kg/m	Size (mm)	Kg/m
20 x 20	0.88	25 x 25	1.11	25 x 25	1.77
25 x 25	2.23	30 x 30	1.36	30 x 30	2.18
40 x 40	1.84	40 x 40	2.42	40 x 40	2.97
40 x 40	3.52	45 x 45	2.09	45 x 45	3.38
45 x 45	4	50 x 50	2.33	50 x 50	3.77
50 x 50	4.47	50 x 50	5.82	60 x 60	4.57
60 x 60	5.42	60 x 60	7.09	60 x 60	8.69
70 x 70	6.38	70 x 70	8.36	70 x 70	10.3
75 x 75	6.82	75 x 75	8.96	75 x 75	11.05
80 x 80	7.34	80 x 80	9.63	80 x 80	11.9
80 x 80	14.05	90 x 90	8.3	90 x 90	10.9
90 x 90	13.4	90 x 90	15.9	100 x 100	12.2
100 x 100	15	100 x 100	17.8	100 x 100	21.9
120 x 120	14.7	120 x 120	18.2	120 x 120	21.6
120 x 120	26.6	150 x 150	23	150 x 150	27.3
150 x 150	33.8	200 x 200	48.56	200 x 200	59.9
200 x 200	71.1				

Unequal Angles



Size (mm)	Kg/m	Size (mm)	Kg/m	Size (mm)	Kg/m
40 X 25	1.91	50 X 40	3.33	50 X 40	3.93
60 X 30	3.37	60 X 30	3.99	65 X 50	4.35
65 X 50	5.16	65 X 50	6.75	75 X 50	5.65
75 X 50	7.39	75 X 50	8.9	80 X 60	6.37
80 X 60	7.36	80 X 60	8.34	100 X 65	8.77
100 X 65	9.94	100 X 65	12.3	100 X 75	10.6
100 X 75	13	100 X 75	15.4	100 X 75	10.6
100 X 75	13	100 X 75	15.4	125 X 75	12.2
125 X 75	15	125 X 75	17.8	150 X 75	17
150 X 75	20.2	150 X 75	24.8	150 X 90	18.2
150 X 90	21.6	150 X 90	26.6	200 X 100	23
200 X 100	27.3	200 X 100	33.7	200 X 150	32
200 X 150	39.6	200 X 150	47.1		

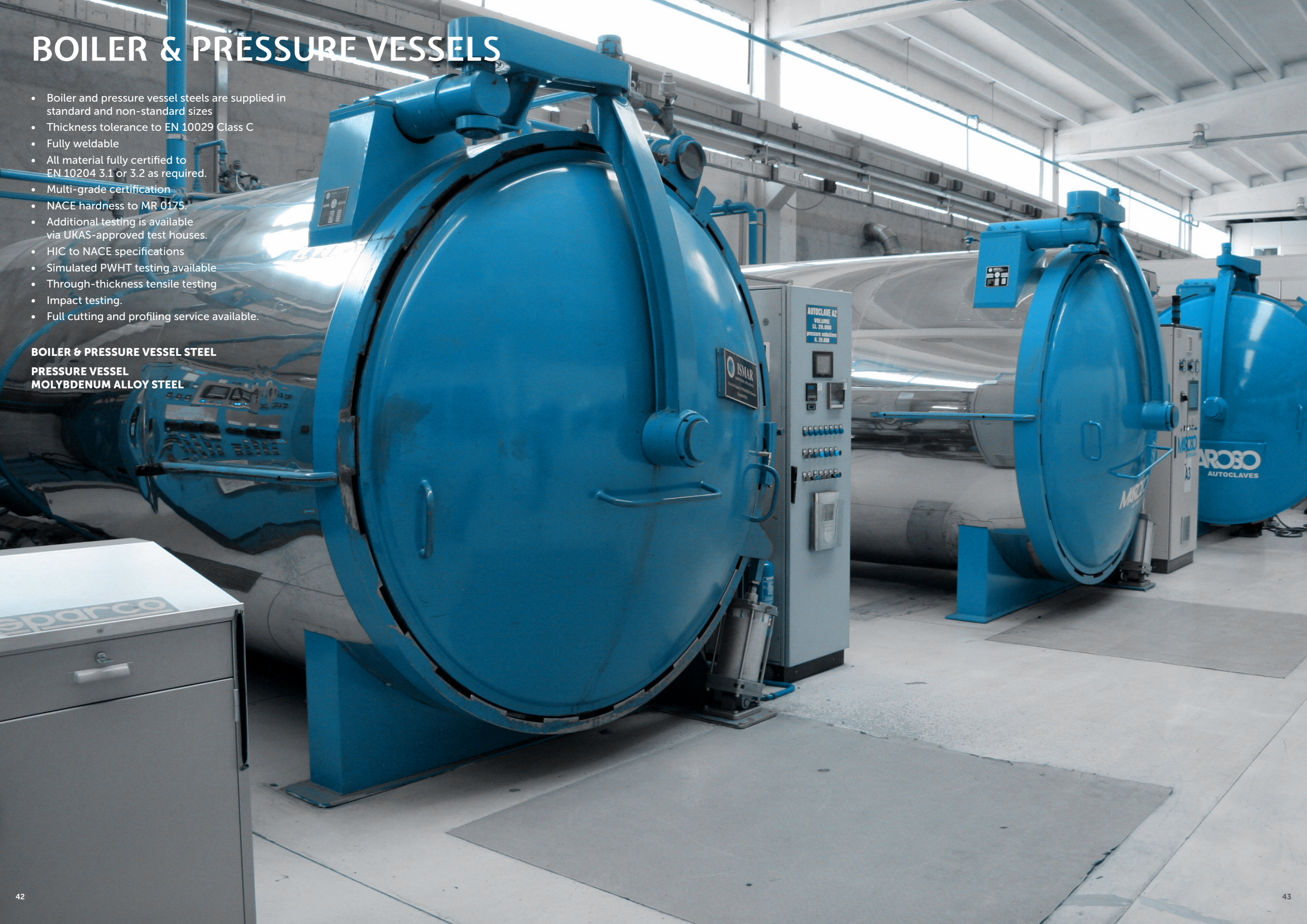


# BOILER & PRESSURE VESSELS

- Boiler and pressure vessel steels are supplied in standard and non-standard sizes
- Thickness tolerance to EN 10029 Class C
- Fully weldable
- All material fully certified to EN 10204 3.1 or 3.2 as required.
- Multi-grade certification
- NACE hardness to MR 0175.
- Additional testing is available via UKAS-approved test houses.
- HIC to NACE specifications
- Simulated PWHT testing available
- Through-thickness tensile testing
- Impact testing.
- Full cutting and profiling service available.

## BOILER & PRESSURE VESSEL STEEL

### PRESSURE VESSEL MOLYBDENUM ALLOY STEEL



BOILER & PRESSURE VESSEL STEEL

Specifications:

- BS 1501-161-430 A/B
  - BS 1501-224-490B LT50
  - BS 1501-223-490B LT50
  - BS 1501-225-490B LT50
  - BS EN 10028 - 3 1993 P460 NL1
- ASME SA 516 Grade 60/65
  - ASME SA 516 Grade 70
  - DIN 17155 HII
  - ASTM A 285 Grade C
  - BS EN 10207 SPH 265
  - BS EN 10028 P265 GH
  - BS EN 10028 P355 NL1

PRESSURE VESSEL MOLYBDENUM ALLOY STEEL

Thickness Range (mm)	Length x Width (mm)	Length (mm)
3-100	2000, 2500, 3000	up to 12000 long

Available Specifications:

Spec	Material	Material
BSEN10028-2 16M03	0.25% - 0.35% moly	Working temp up to 500°C
ASTM A387 Grade 12 Class 2 (Dual certified to BSEN10028-2 13CRM045)	1% chrome - 1/2% moly	Working temp up to 560°C
ASTM A387 Grade 11 Class 2	1 1/4% chrome - 1/2% moly	Working temp up to 575°C
ASTM A387 Grade 22 Class 2 (Dual certified to BSEN10028-2 10CRM0910)	2 1/4% chrome - 1% moly	Working temp up to 600°C
ASTM A387 Grade 5, Class 2	5% chrome - 1/2% moly	
ASTM A387 Grade 91, Class 2	9% chrome 1% moly	



# VALUE ADDED SERVICES

We use all the latest technology to offer an efficient and high-quality steel profiling service. Specialising in flame cutting, plasma profiling, and drilling, we can help with any project, from single one-offs to bulk batches.

Our up-to-date flame cutting and plasma machines use the latest CAD software to produce profiles to our clients' requirements. From the simple blank to complex parts we can supply with accuracy and precision all marked in accordance with the relevant standard.

We work carefully with selected partners to deliver additional services to provide a turnkey service for customers which include folding, machining, shot-blasting and painting.

# PLASMA COPING LINE

There are numerous different file formats we are able to work from to produce drawings, but the most common such as NC.1, DXF, DWG and STEP.

We're also able to create drawings from sketches, written requirements or from samples/templates

## CUTTING

The RPC plasma coping line can cut on any axis with its 360° robotic arm with laser accurate measurements utilising the Kjellberg Hi Focus Plasma.

## MITRE CUTTING

The coping line is capable of accurately cutting any orientation of mitre cut and double bevel cuts.

## HOLE CUTTING

The coping line is able to cut to any bespoke size and shape with the utmost accuracy and speed.

## SLOT CUTTING

We are able to offer incredible, precise slot cutting capabilities across all sizes, shapes including bespoke requirements.

## NOTCHING

Our 360° plasma arm can easily and precisely notch the flanges ready for connecting and welding.

## CUT-OUTS

The coping line easily creates bespoke cutouts and inspection holes to any size and shape required.

## HAUNCHES

The RPC-1200 can stitch cut haunches to any degree utilising the 360° robotic plasma arm.

## CASTELLATION

Standard, circular, rectangular or hexagonal astellation is available, with bespoke requirements.

## WELD PREP

The coping line can offer faultless and quick weld preparation.

## SPLIT TEES

Whether its half or offset split tees the RPC- 1200 can supply these stitch cut.

## DOG BONES

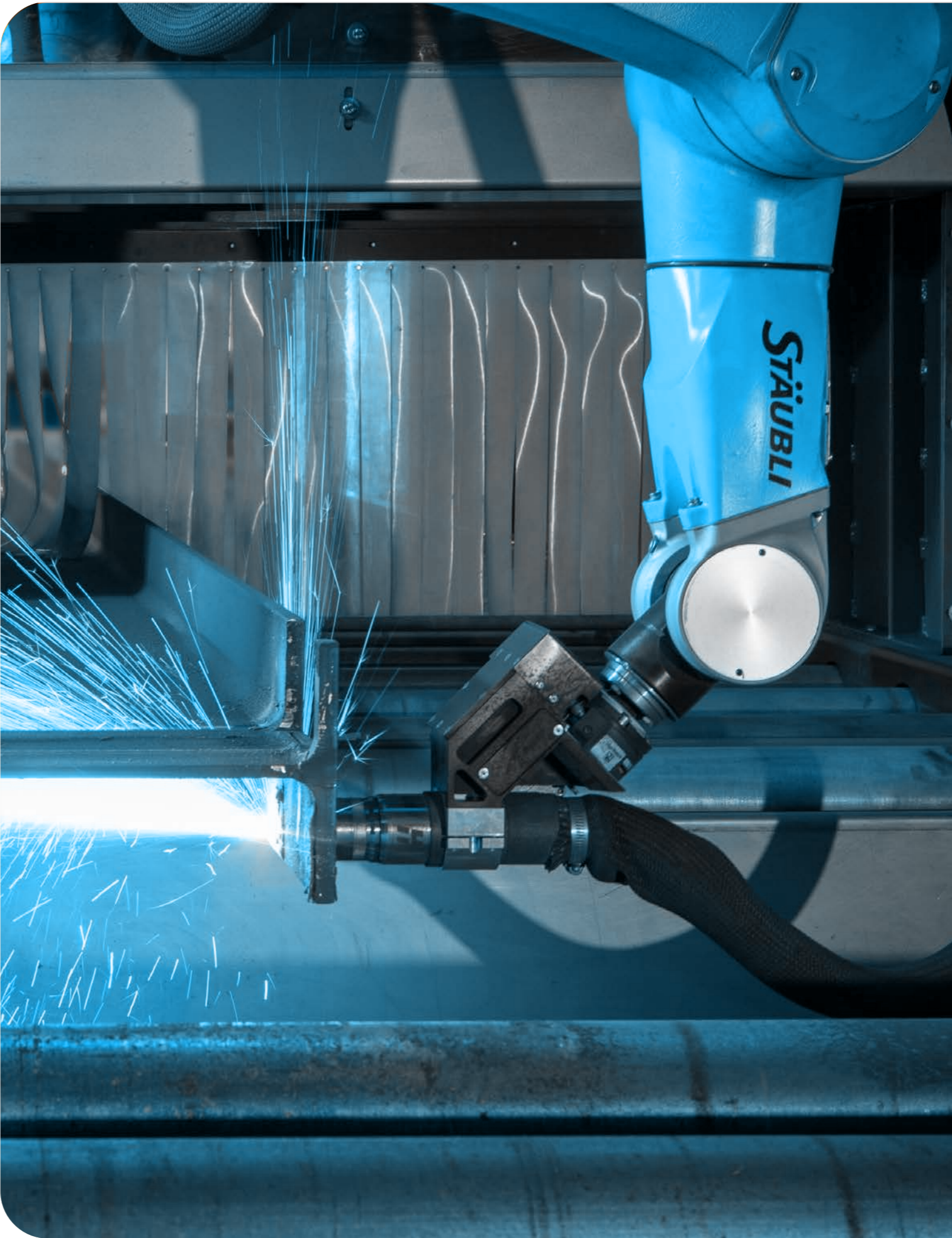
## RAT HOLES

## MARKING

The Kjellberg HiFocus Plasma allows us to offer markings as standard. Allowing us to offer the precise number of characters and size to suit your requirements.

Minimum and Maximum Section Sizes

Product	Minimum	Maximum
Beams	100mm x 55mm x 8kg	1016mm x 305mm x 548kg
Columns	152mm x 152mm x 23kg	356mm x 406mm x 990kg
Channels	100mm x 50mm	430mm x 100mm
Equal Angles	75mm x 75mm x 6mm	200mm x 200mm x 24mm
Unequal Angles	100mm x 50mm x 6mm	200mm x 100mm x 15mm
RHS	100mm x 100mm x 8mm	600mm x 400mm x 16mm



# FLAT PROFILING & WELD PREPARATION

## PLASMA PROFILING

This is one of the most common forms of process used in the steel industry to cut flat products. It works by combing compressed air with other gasses and an electrode to create Plasma which is then directed through a cutting tip onto the material, the high temperature of the plasma melts the metal, with the high speed gasses blowing away the molten metal creating a cutting process. Plasma cutting can be in the form of small hand held units or larger CNC controlled units operated on large cutting beds.

Typically this method is used to cut steel up to 40mm thick dependent on the machine used. Cut quality is generally very good with the ability to produce accurate shapes and holes within generally accepted cutting tolerances.

### Production Capabilities

Plasma Profile Cutting
CE Marking Exec. 4
High definition cutting to 40mm
3.5m cutting width
12m cutting length
Bevel head cutting
+/- 2mm cutting tolerance (non-truehole technology)
Plate etching capability

## OXY FUEL PROFILING

Another common process in the steel industry, this method is commonly used to cut thicker material – anything up to 500mm dependent on the machine. As the name suggests, this method uses heated oxygen to cut through material. Although the cut quality may not match that of Plasma its ability to cut much thicker material makes it an extremely versatile method and widely used across the steel industry.

## LASER PROFILING

This is one of the most accurate methods of cutting metal and is a technology that has improved drastically over recent years. These machines are extremely expensive to purchase and operate but heir cutting speed means they are for more efficient than Plasma and cut to a generally high quality with lower tolerances. Historically the cutting range of these machines has been around 25mm but newer machines are coming to market with the ability to cut up to 50mm thick. These machines are best suited for small intricate parts, light gauge materials and high volume production type work.

Oxy Fuel Profile Cutting
CE Marking Exec. 4
Gas cutting to 240mm
4 head efficiently cutting
25m x 3.5m bed cutting area (plt weight dependent)
+/- 3mm standard tolerance
Manual bevelling capability



# DRILLING & DEBURRING

## DRILLING

Most structures are put together using beams and columns and bolting them together using profiled plates and angle cleats. Some customers will be drilling by hand using a mag drill, a high speed drill with a magnetic base to secure it to the steel. This is a slow process where the position needs precisely measuring and the drilling needs regular addition of coolant and lubricant. On average 5 minutes per hole. Stockholders and large fabricators might have a CNC drill. A fully automated drill using carbide tipped drills. These machines can be programmed or use NC.1 files generated from CAD software. These machines can drill holes in under 3 seconds but do have costs in the region of £100K.

## DEBURRING

Deburring machines are used in manufacturing processes to remove burrs, which are small, unwanted pieces of material left on the edges of metal after they have been profile cut from plate. Burrs can affect the quality and functionality of the final product, so removing them is essential for handling, transportation and primarily precision manufacturing.

Deburring machines come in various types, including:

- **Manual Deburring Tools:** These are handheld tools such as files, sandpaper, or abrasive pads that workers use to manually remove burrs.
- **Mechanical Deburring Machines:** These are automated machines that use abrasive wheels, brushes, or belts to remove burrs from parts in a controlled and efficient manner.
- **Thermal Deburring Machines:** Also known as flame or thermal deburring machines, these use a combination of heat and gas to remove burrs from metal parts.
- **Electrochemical Deburring Machines:** These machines use a combination of electrical current and chemical solution to dissolve burrs from metal parts.

The Morgan Rushworth DFR 1350 Flat Bed Deburring machine is a robust and cost-effective solution for removing cutting slag and de-burring profile cut parts.

The machine can process parts in the thickness range of 1 to 40mm and up to 1350mm wide. The parts are placed on a conveyor with adjustable speeds, moving the parts through the machine while two pairs of oscillating wheels perform the deburring action.



# GUILLOTINE

One of the oldest cutting methods, this mechanism uses large blades under extreme force to cut through the material. Its initial purchase cost and long term running costs are much cheaper than most other methods but it does have limitations. Most machines can only cut up to 10 or 12mm in thickness and can only produce straight cuts, tolerance and cut quality are also not comparable to that of Plasma or Laser.

# PRESS BRAKE

This process compliments plasma cutting and guillotining. The press uses extreme force and a shaped block system to bend material to the required degrees. Typically bends are 90 degrees but outer degrees are available but subject to +/- 2 degree tolerance.

# CROPPING/PUNCHING

Similar to Guillotine, but predominantly used on Flats & Angles, this method uses blades & tooling to literally ‘punch’ through the metal. Not as accurate as Plasma or Laser but it can be cost effective as its operational costs are generally lower, however it does have technical limitations when it comes to hole diameters and the ability to only cut straight/square on angles, flats can be mitre cut.

# PLATE SAW

Generally used in non-ferrous metals, table & vertical bandsaws are generally used to cut thicker plate materials. Very rarely used within the general steel industry.

# DRAWINGS

When producing bespoke parts for our customers it is essential that where possible, we receive full CAD drawings for the items they require. For very basic items such as squares rectangles without holes these aren’t required, but in general most customers will have a set of drawings to work from. There are numerous different file formats which are used to produce drawings, but the most common such as .DXF & .DWG are handled by all processing hubs within the group.

Ideally, an NC.1 file would be the fastest way to quote a job, particularly for fittings – these are computer files produced by the customer which are fed straight into our profiling machines. hese files ensure the finished products are produced exactly to the customers design, with very little risk of human error. NC.1 files will allow us to quote 100 lines in around 10 to 15 minutes whereas an alternative such as PDF would take considerably longer, delaying the quotation process.

We also have the capability to produce drawings in house from samples or templates, this allows us to create accurate cut parts based on materials provided by our customers. Depending on the complexity and quantities involved, this can be time consuming so requirements will have to be handled on a case by case basis, but we have the knowledge and skills to take a cardboard cut out stencil, to drawing and finally a full cut and processed steel part.

As a simple rule, ask for drawings, NC files, DXF files on every enquiry you receive and forward them to the relevant processing hub for pricing, this will speed up the process and ensure accuracy.

# UKCA/CE

When it comes to structural fabrication, the execution class of profiles produced becomes a vital element of the supply package. As a general rule our production hubs produce profiles to class 2, but what does that mean and what are the differences?

- **CLASS 2** – Plasma produced holes, traceability of volume ordered.
- **CLASS 3** – Drilled Holes, traceability of volume ordered by thickness
- **CLASS 4** – Drilled Holes, traceability of each individual item produced.

If you require anything other than Class 2 it should be specified at time of enquiry, as this will effect pricing, lead time and may also mean that the job is better suited to a different hub.

# FACILITIES

There are numerous machines across the group that all have different capabilities, the following is a breakdown of what we currently have:

Machine
2 x ESAB Gas/Oxy Fuel (5mm to 150mm & 5mtr x 2.5mtr)
4 x Esprit HD Plasma (3mm to 30mm & 4mtr x 2mtr)
1 x Esprit Plasma (3mm to 30mm & 6mtr x 3mtr)
1 x Ficep Plasma & Drill (3mm to 50mm & 6mtr x 2.5mtr)
1 x ESAB Plasma & Gas/Oxy Fuel (3mm to 50mm & 6mtr x 2.5mtr)
1 x ESAB Gas/Oxy Fuel (5mm to 150mm & 6mtr x 2.5mtr)
2 x Guillotine (0.6 to 12mm, 10mm durbar, & 3mtr wide)
2 x Brake Press (0.6 to 12mm, 10mm durbar, & 4mtr wide)
1 x Morgan Rushworth Gas/Oxy Fuel & Plasma (25mtr x 3.5mtr wide + Bevel Cut)
1 x Esprit HD Plasma (6mtr x 2mtr)
1x RPC 1200 Mk3 (18.3mte length, 20m/min cutting speed)



# OTHER PROCESSING

## SAW CUTTING

A simple process of cutting steel using a bandsaw blade. There are many different models of band saw offering different options in saw cutting like mitre cutting up to +/-60° or cutting to a tolerance of +/- 0mm.

## SHOTBLASTING & PAINTING

Shotblasting is a process of firing tiny balls of steel at high speed and in large quantities at a section of steel to remove the rust and scale build up. A shotblasted section of steel will begin to oxidise (rust) after a day or 2 depending on the moisture in the air.

Material sold as shotblast only will likely either be being galvanised or some other surface treatment, fireproof paint, powder coating etc. Primer painting is only a holding primer to stop the material going rusty before final treatment or encapsulation. It does not stop the material going rusty if it is exposed to the elements.

Standards are blasting to SA2.5 and painting to a minimum of 25 microns.

## GALVANISING

This is the process of applying a protective layer of zinc over the steel. Usually sections are “hot dipped” this is the process of dipping the section in a bath of molten zinc. This provides protection against rusting long term.

# DRAWINGS

SPS can handle all types of drawings for sections. Ideally please get NC.1 files but they can lso handle DWG, DXF and PDF’s even a scan of something hand drawn. For anything, apart from NC files, IMS will redraw and send back to you to get your customer to confirm hole placement. The SPSteam will let you know if there is anything they can not offer and any changes made. They will send you an information pack containing any changes and the nesting pattern of the sections.

## UKCA/CE

As with profiles the execution class of sections produced becomes a vital element of the supply package. All processing at IMS is to execution class 2 as standard but they can offer up to EXC 4.

If you require higher than EXC2 please discuss this with us and please ensure it is clearly written on all paperwork, from enquiry request to purchase order.

# FACILITIES

There are numerous machines across the group that all have different capabilities, the following is a breakdown of what we currently have:

Shotblasting and Primer Painting Line
Max Profile - 1500mm wide x 500mm high
Max Length - 18.3 meters
Minimum Length - 2.5 meters
Shotblasting to SA2.5
Painting to 25 microns in Red or Grey as standard
Flats - 30mm x 5mm and above
Angles - 6mm thick and above
Rounds & Squares - 12mm and above
Hollows - 6mm thick and above. Up to 500mm high
All UB, UC and PFC - up to 1500mm wide x 500mm high
Sheet and Plate - 6mm thick and above
2x 2 CNC Drilling Lines
Max Profile - 1016mm wide x 400mm high
Max Length - 18.5 meters.
From 10mm Diameter to 40mm Diameter
Min profile width 80mm
Mitre cutting +45~°-60°
Slew cutting +45~°-60°
Hard stamping & Scribing



# PROJECT MANAGEMENT

## PROJECT SUPPLY HISTORY

SPS have been providing and managing steel supply to both offshore and onshore projects since inception in 1965. Our plates, sections and tubulars have been the cornerstone for many offshore and onshore construction, nuclear, defence and renewable projects. From oil rigs and FPSO's, to wind farms, football stadiums, bridges, shopping centres and nuclear submarines.

Throughout these ventures we have provided a comprehensive service with total steel supply backed by our outstanding quality assurance.

At SPS we recognise that projects have increasingly demanding technical specifications, complex delivery schedules and logistics, while still having to be brought in under budget and on time.

It is for this reason that we have developed a dedicated project team with an understanding of your project needs that is second to none,

# QUALITY ASSURANCE

In today's challenging environment our customers demand high quality products and services. Material ordered must be to the correct dimensions and specifications with prompt delivery to meet deadlines.

Our culture is one of total commitment to quality.

To ensure that we consistently supply materials and service to the highest possible standards, our quality management systems are audited and certified by LRQA and approved to the International Standard ISO 9001:2015.

- Material fully certified to EN 10204 3.1 or 3.2 as required
- All material is supplied with mill certificates and hard stamped for full traceability
- Additional third-party inspection is available at your request
- SPS are able to provide advice and information on steel specifications and welding data when required

When specific applications require material with additional testing, we provide a complete testing service using independent UKAS approved test houses.

All testing carried out would be either Lloyds, DNV or other third party witnessed. Additional testing available includes the following:

- Charpy Impact testing
- Magnetic Particle Inspection (MPI)
- HIC to NACE specifications
- Hardness testing
- Through thickness testing (T.T.T.)
- Chemical and physical analysis
- Ultrasonic testing (U.T.)
- Pellini drop weight tear tests
- Mechanical results in the Simulated Post Weld Heat Treated condition (PWHT) to specification.

SPS stock material is ordered to both international and SPS 'in-house' specifications. These 'in-house' grades have more stringent physical, chemical and testing requirements than the equivalent national and international standards to ensure that the maximum number of customer and project modifications can be met.



A MARUBENI-ITOCHU STEEL INC COMPANY

## QUALITY YOU CAN TRUST EVERY TIME

### CHECKLIST

- ☒ Financially secure and stable supplier
- ☒ Responsible sourcing
- ☒ UK Based and UK Registered – 145 Year history
- ☒ Multi-Site UK Locations – 14 National Sites
- ☒ Global Presence, Stock & Global Offices
- ☒ Major Worldwide Mill Relationships
- ☒ Substantial Steel Stock Levels – 50,000 Tonnes
- ☒ In-house Value-added services: Cutting, Drilling, Coping, Profile, Forming, Bending, Shotblast & Paint
- ☒ Just-In-Time Deliveries: 122 Vehicles in our fleet – UK and European Delivery
- ☒ Experienced Project Supplier
- ☒ Multi-Lingual Experienced Project Management Team (English, Spanish, Portuguese, Arabic)
- ☒ Consignment Stock Availability
- ☒ Industry Accredited – ISO Badges
- ☒ Carbon Commitment
- ☒ Cyber Essentials Plus
- ☒ Multi-Product Range : One single supplier.
- ☒ The Logical Steel Supply Solution



VIEW ALL OF OUR  
QUALITY ASSURANCE CERTIFICATES



**STEEL  
PLATE &  
SECTIONS**



A MARUBENI-ITOCHU STEEL INC COMPANY

**QUALITY YOU CAN TRUST EVERY TIME**

**sps-bmsteel.co.uk**

**Glasgow Office**

180 Hardgate Road  
Shieldhall  
Glasgow  
G51 4TB  
United Kingdom

+44 (0)141 445 2591

**Bellshill Office**

Duart House  
Strathclyde Business Park  
Finch Way, Bellshill  
ML4 3PR  
United Kingdom

+44 (0)141 440 5860

**Aberdeen Office**

Cloverhill Road  
Bridge of Don Ind. Est.  
Aberdeen  
AB23 8FE  
United Kingdom

+44(0)1224 702 771

**Birmingham Office**

6060 Knights Court  
Birmingham Business Park  
Birmingham  
B37 7WY  
United Kingdom

+44 (0)121 313 4300

**India/Middle East Office**

+91 982 080 7101

[sales@sps-bmsteel.co.uk](mailto:sales@sps-bmsteel.co.uk)

