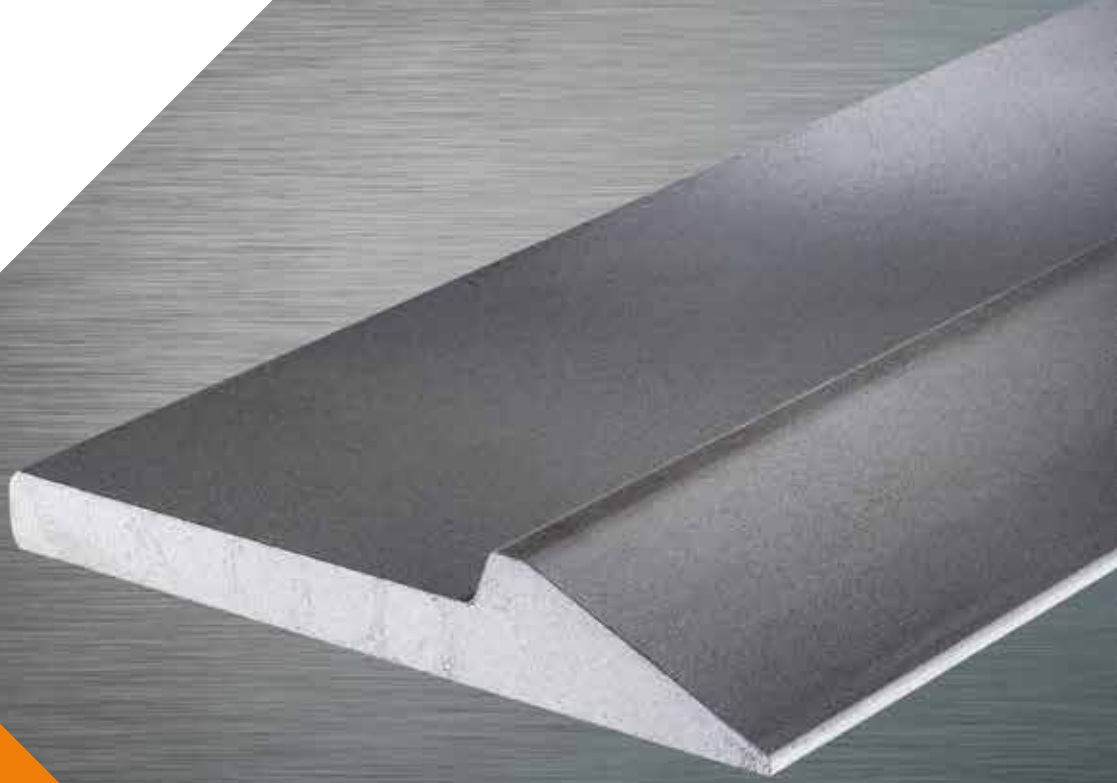




**BRITISH
STEEL**



Cutting Edge Profiles

For wear part applications

BUILDING STRONGER FUTURES

Introducing British Steel

British Steel is a world leader in the production of steel with facilities across the UK, France and the Netherlands, supplying high quality steel products around the world.

What makes us different is our approach to business. We build collaborative relationships offering guidance and solutions to our customers from the very early design stage to deliver real benefits through optimisation of fabrication and process routes.

We have a strong track record of working with original equipment manufacturers. We work with our customers to understand their needs, enabling us to develop and deploy our expertise where you need it – to the benefit of your business and your products.

“ We work with our customers to understand their needs, enabling us to develop and deploy our expertise where you need it – to the benefit of your business and your products. ”



As a global leader in boron steel, our years of experience in supplying to wear-part and ground engaging tool manufacturers mean that we understand what matters to you and your processes.

The right shape from the start

Gas-cutting pre-hardened wear-plate can lead to reduced hardness where it's needed most, creating a "soft zone" close to the cutting edge and a weaker component. Choosing a special profile means the right net shape from the start and extended life for your wear parts.



Products tailored to your requirements

Should your requirements fall outside of the wide range of cutting edge profiles available as standard, our roll design team has a wealth of expertise to help you to design the perfect, bespoke profile for the job.



Consistent properties = efficient processes

We understand the importance of through thickness hardenability. Control of our own steelmaking means ultra-clean steel, optimum grain size, fully through-hardened structure after heat-treatment and consistent properties time in, time out.



Ready when you are

Our broad range of standard dimensions is produced on a dependable rolling schedule meaning all sizes are available on a regular basis.



Local know-how

With British Steel offices all over the world, our global team is always on hand to support you in your market.



Superior finished parts

Post-heat treatment, our high quality cutting edge profiles, available in a wide choice of premium steel grades, offer outstanding wear resistance for a range of bucket edge/ blade applications.

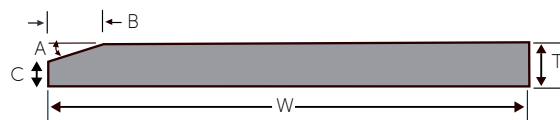


Product range

We offer a wide variety of single and double bevel flats as well as arrowhead and grader bar profiles suitable for a broad range of bucket edge/blade applications.

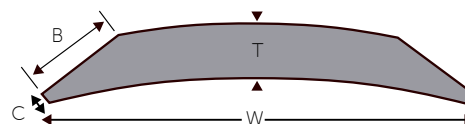
Single bevel flats

Profile	Width mm (W)	Gauge mm (T)	Weight Kg/m	Bevel angle (A)	Bevel width mm (B)	Tip height mm (C)
SB244-25	244	25	44.46	22.6	45.60	6
SB244-30	244	30	54.07	22.6	45.60	11
SB244-32	244	32	57.91	22.6	45.60	13
SB281	281	32	65.00	22.6	57.60	8
SB299	299	40	85.25	22.6	72.00	10
SB304	304	44.45	97.40	22.6	69.10	15.7



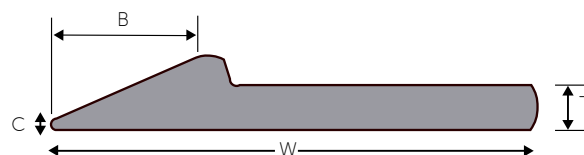
Grader bars (carbon and boron steel)

Profile	Width mm (W)	Gauge mm (T)	Weight Kg/m	Bevel width mm (B)	Tip height mm (C)
GB152-12	152.4	12.7	13.26	33.3	2.5
GB152-13	152.4	13.3	13.98	33.3	3.1
GB152-15	152.4	15.9	17.09	33.3	5.6
GB152-19	152.4	19.1	20.91	33.3	8.8
GB203-15	203.2	15.88	23.17	33.3	2.39
GB203-16	203.2	16.5	24.14	33.3	3.01
GB203-19	203.2	19.05	28.13	33.3	5.56
GB203-25	203.2	25.4	38.05	33.3	11.91

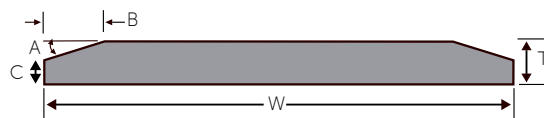


Arrowheads

Profile	Width mm (W)	Gauge mm (T)	Weight Kg/m	Bevel angle (A)	Bevel width mm (B)	Tip height mm (C)
AH203-19	203.2	19.1	31.40	24.3	60.3	4.6
AH203-22	203.2	22.2	36.50	24.3	60.3	7.7
AH203-25	203.2	25.4	41.62	24.3	60.3	10.9
AH203-28	203.2	28.6	46.73	24.3	60.3	14
AH203-31	203.2	31.8	51.84	24.3	60.3	17.2
AH255-28	255	28.5	65.65	25	98.7	11.2
AH255-40	255	40	88.66	25	98.7	22.7



Double bevel flats



Profile	Width mm (W)	Gauge mm (T)	Weight Kg/m	Bevel angle (A)	Bevel width mm (B)	Tip height mm (C)
DB203-16	203.2	16	23.79	25	23.60	5
DB203-19	203.2	19	28.53	25	23.60	8
DB203-22	203.2	22	33.28	25	23.60	11
DB203-25	203.2	25	38.02	25	23.60	14
DB203-28	203.2	28.5	43.55	25	23.60	17.5
DB254-19	254	19	35.37	25	27.90	6
DB254-25	254	25	47.25	25	27.90	12
DB254-29	254	29	55.16	25	27.90	16
DB254-32	254	32	61.10	25	27.90	19
DB254-35	254	35	67.04	25	27.90	22
DB254-38	254	38	72.97	25	27.90	25
DB254-41	254	41	78.91	25	27.90	28
DB254-45	254	45	86.83	25	27.90	32
DB279-25	279	25	48.08	22.5	45.90	6
DB279-35	279	35	70.02	22.5	45.90	16
DB305-22	305	22	48.63	22.5	37.40	6.5
DB305-25	305	25	55.76	22.5	37.40	9.5
DB305-28	305	28.5	64.09	22.5	37.40	13
DB305-30	305	30	67.66	22.5	37.40	14.5
DB305-32	305	32	72.42	22.5	37.40	16.5
DB305-35	305	35	79.56	22.5	37.40	19.5
DB305-38	305	38	86.69	22.5	37.40	22.5
DB305-41	305	41	93.83	22.5	37.40	25.5
DB305-44	305	44.5	102.15	22.5	37.40	29
DB330-19	330	19	45.73	22.5	32.60	5.5
DB330-22	330	22	53.45	22.5	32.60	8.5
DB330-25	330	25	61.18	22.5	32.60	11.5
DB330-28	330	28.5	70.19	22.5	32.60	15
DB330-30	330	30	74.06	22.5	32.60	16.5
DB330-32	330	32	79.02	22.5	32.60	18.5

Profile	Width mm (W)	Gauge mm (T)	Weight Kg/m	Bevel angle (A)	Bevel width mm (B)	Tip height mm (C)
DB330-35	330	35	86.93	22.5	32.60	21.5
DB330-38	330	38	94.65	22.5	32.60	24.5
DB330-40	330	40	99.80	22.5	32.60	26.5
DB330-41	330	41	102.38	22.5	32.60	27.5
DB330-45	330	45	112.68	22.5	32.60	31.5
DB330-50	330	50	125.55	22.5	32.60	36.5
DB330-60	330	60	151.30	22.5	32.60	46.5
DB359-30	359	30	74.94	22.5	55.50	7
DB359-32	359	32	80.56	22.5	55.50	9
DB359-35	359	35	88.99	22.5	55.50	12
DB359-40	359	40	103.04	22.5	55.50	17
DB359-45	359	45	117.10	22.5	55.50	22
DB359-50	359	50	131.20	22.5	55.50	27
DB406-20	406	20	58.71	22.5	39.80	3.5
DB406-22	406	22	65.05	22.5	39.80	5.5
DB406-25	406	25	74.56	22.5	39.80	8.5
DB406-28	406	28.5	85.66	22.5	39.80	12
DB406-30	406	30	90.40	22.5	39.80	13.5
DB406-32	406	32	96.75	22.5	39.80	15.5
DB406-35	406	35	106.26	22.5	39.80	18.5
DB406-38	406	38	115.77	22.5	39.80	21.5
DB406-40	406	40	122.12	22.5	39.80	23.5
DB406-41	406	41	125.29	22.5	39.80	24.5
DB406-44	406	44.45	136.38	22.5	39.80	27.95
DB406-45	406	45	137.97	22.5	39.80	28.5
DB406-50	406	50	153.82	22.5	39.80	33.5
DB406-60	406	60	185.52	22.5	39.80	43.5
DB480-35	480	35	125.76	22.5	42.70	17.3
DB480-40	480	40	144.62	22.5	42.70	22.3
DB480-45	480	45	163.48	22.5	42.70	27.3

* Please talk to us about the possibility of supplying alternative gauges and bevel angles to those shown.

** We can produce a range of thicknesses for the same bevel width.

Not found exactly what you're looking for?

Contact us at:

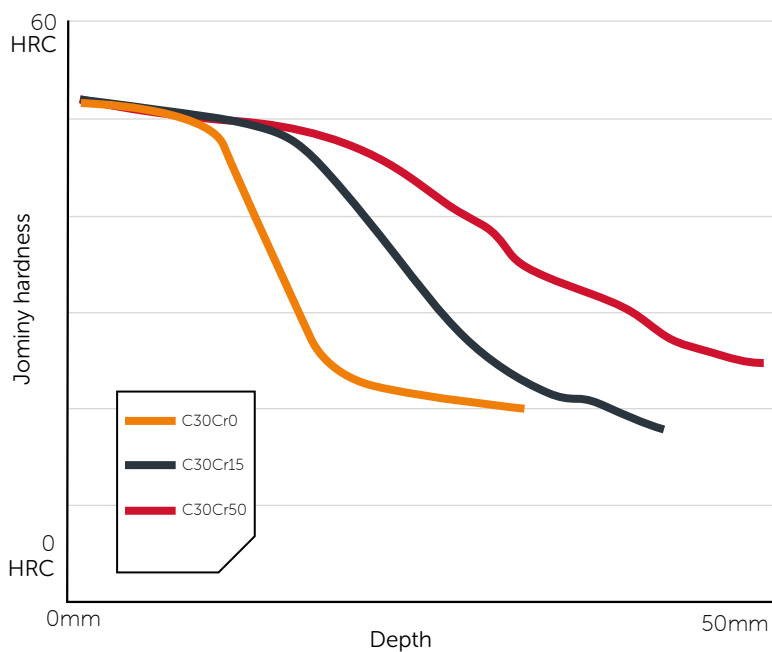
specialprofiles@britishsteel.co.uk

Boron steels

We offer 3 boron-treated steels with a nominal carbon content of 0.3%. Increasing levels of alloy content are available to allow customers to match section thickness and heat-treatment quench severity with hardenability. This ensures a suitable core hardness is achieved in the finished blade.

	Steel specification	Carbon (%)	Chrome (%)
Standard carbon	C30Cr0	0.30	-
	C30Cr15	0.30	0.15
	C30Cr50	0.30	0.50

Hardenability curves - Boron steel (standard carbon content)



Steel for arrowhead flats

We recommend use of the following steel grades. They are suitable for 'weld in' bucket edges as well as bolt-on applications (appropriate weld procedure required).

Section	Steel specification	Carbon (%)	Chrome (%)
AH203	C25Cr40	0.25	0.40
AH255	C20Cr50	0.20	0.50

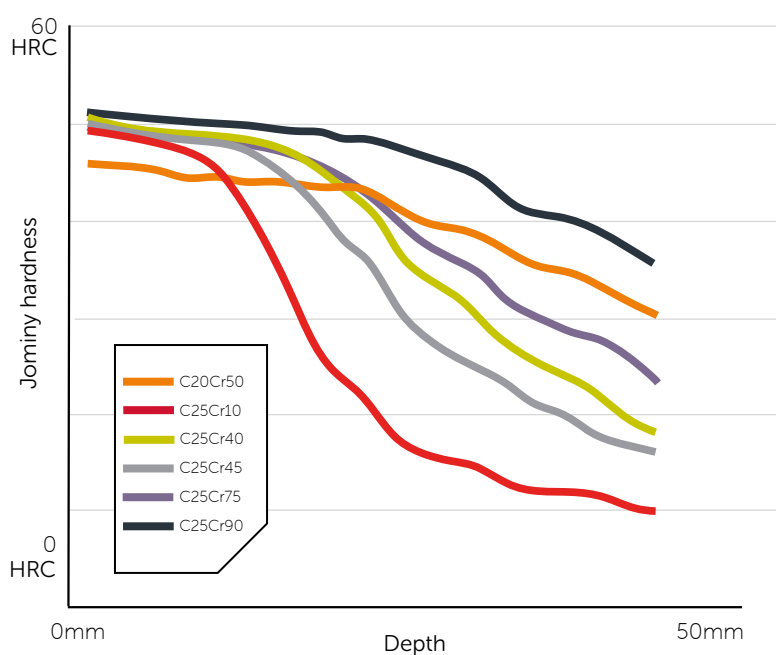
Boron steels with reduced carbon

A range of boron-treated steels is available with a lower nominal carbon content of between 0.20% and 0.25%.

Heat-treatment of the blade improves toughness levels without significant loss of hardness. The optimum application of our standard and lower carbon range of boron steels depends both on the section thickness and on heat-treatment, particularly with respect to the quench severity.

	Steel specification	Carbon (%)	Chrome (%)
Low carbon	C20Cr50	0.20	0.50
	C25Cr10	0.25	0.10
	C25Cr40	0.25	0.40
	C25Cr45	0.25	0.45
	C25Cr75	0.25	0.75
	C25Cr90	0.25	0.90

Hardenability curves - Boron steel (reduced carbon content)



Steel specifications for manufacturing blades without heat treatment

A range of high-carbon grades is offered to customers who want to manufacture blades without heat treatment. These steels can provide a cost-effective solution in certain service environments, but they have lower levels of hardness and fracture toughness compared with post-heat-treated standard and lower carbon boron steel grades. These steels can be supplied to SAE1575, SAE1084 and SAE1080 standards.

**There is also the option to supply long bar profiles in the heat-treated condition.
Please contact us for further details.**



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