



STEEL & METAL

Structural Steel Brochure

Brisko Metal Resources manufactures and supplies a variety of structural steel products, available in CHS, SHS and RHS options

RHS, SHS & CHS



Supporting YOUR Next Project

As a leading international supplier, founded in 1996, Brisko have decades of experience in the manufacturing and supply of structural steel, system scaffolding, scaffold fittings, steel tubes and pipes. We export our products globally in both ready-made lengths and bespoke options, according to our customer's requirements.



TAURANI

Brisko Metal Resources is a proud subsidiary of the multinational conglomerate Taurani Holdings Ltd, a billion-dollar enterprise consisting of 20 companies that specialise in manufacturing and trading.

Certifications

Our steel hollow sections are manufactured with close tolerances and have increased strength capabilities, ensuring quality products you can trust. All of our CHS, RHS and SHS are manufactured in accordance with BS EN 10219 UK and European regulations and legislations.

ISO 9001:2015
Manufacturers

ISO 45001:2018
Steel Stockholding

Manufacturers of:
Welded Hollow Sections

Manufacturers of:
Pipes & Tubes

Certificate of conformity:
Welded tubes L1 & L2

Construction Product
Manufacturers Certificate

SHS

Square Hollow Section

HOLLOW SECTIONS BS EN 10219

Steel Hollow Sections: Size Range & Specifications

Cold-formed hollow sections designed, manufactured and supplied by Brisko Metal Resources and available in a range of dimensions at any required length or quantity.

Size mm		Thickness mm	Mass Kg/m	Pcs/Bundle	
				7.5mt	12mtr
20x20	x	2.00	1.12	150	
	x	2.50	1.35	150	
25x25	x	2.00	1.43	100	
	x	2.50		100	
	x	3.00	2.04	100	
30x30	x	2.00	1.75	100	
	x	2.50	2.14	64	
	x	3.00	2.51	64	
	x	4.00	2.94	49	
40x40	x	2.00	2.37	80	
	x	2.50	2.92	64	
	x	3.00	3.45	49	
	x	4.00	4.46	49	
	x	5.00	5.40	49	
50x50	x	2.00	2.98	49	
	x	2.50	3.71	49	
	x	3.00	4.39	49	36
	x	4.00	5.72	36	
	x	5.00	6.97	25	

Size mm		Thickness mm	Mass Kg/m	Pcs/Bundle	
				7.5mt	12mtr
60x60	x	2.00	3.60	49	
	x	2.50	4.47	36	
	x	3.00	5.34	36	
	x	4.00	6.97	25	
	x	5.00	8.54	25	
70x70	x	6.00	10.00	20	
	x	3.00	6.28	36	
	x	3.50	7.31	36	
	x	5.00	10.10	25	
	x	6.00	12.06	20	
80x80	x	2.00	4.83	36	
	x	2.50	6.01	36	
	x	3.00	7.22	25	
	x	3.50	8.16	25	
	x	4.00	9.47	25	
	x	5.00	11.70	20	
	x	6.00	13.90	16	
90x90	x	3.00	8.10	25	
	x	3.50	9.72	20	
	x	5.00	13.30	20	
	x	6.00	15.80	16	
100x100	x	3.00	9.03	20	12
	x	4.00	12.00	20	12
	x	5.00	14.80	16	12
	x	6.00	17.60	12	9
	x	8.00	22.90	9	6
	x	10.00	27.90	9	6
	x	12.00	34.90	9	6

Size mm		Thickness mm	Mass Kg/m	Pcs/Bundle	
				7.5mt	12mtr
120x120	x	3.00	10.80	16	
	x	4.00	14.40	16	
	x	5.00	18.00	12	9
	x	6.00	21.30	12	6
	x	8.00	27.90	9	6
	x	10.00	34.20	16	4
	x	12.00	39.90	16	4
150x150	x	5.00	22.30	9	6
	x	6.00	26.40	9	6
	x	8.00	33.90	6	4
	x	10.00	43.60	6	4
	x	12.00	53.40	4	2
180x180	x	6.00	33.50	9	4
	x	8.00	43.00	6	4
	x	10.00	53.00	6	2
	x	12.00	62.60	4	2
200x200	x	6.00	36.40	4	4
	x	8.00	48.00	4	2
	x	10.00	59.30	4	2
	x	12.00	70.10	2	2
250x250	x	6.00	48.10	4	2
	x	8.00	60.50	4	2
	x	10.00	75.00	2	2
	x	12.00	92.60	2	2



Standard lengths: 7.5 meters and 12 meters | Any required length made to order
Surface finishing options: Lightly oiled, painted (black, blue, red) & hot dipped galvanised
Hollow section steel grades: S235, S275 & S355

RHS

Rectangular Hollow Section

Size mm	Thickness mm	Mass Kg/m	Pcs/Bundle	
			7.5mt	12mtr
40x20	x 2.00	1.75	100	
	x 2.50	2.14	64	
	x 3.00	2.51	64	
50x25	x 2.00	2.21	100	
	x 2.50	2.72	64	
	x 3.00	3.22	64	
50x30	x 2.00	2.37	100	
	x 2.50	2.92	64	
	x 3.00	3.45	64	
	x 4.00	4.46	49	
60x30	x 2.00	2.70	72	
	x 3.00	3.80	64	
60x40	x 2.00	2.98	64	
	x 2.50	3.71	49	
	x 3.00	4.39	49	
	x 4.00	5.72	49	
75x50	x 3.00	5.62	36	
	x 5.00	9.14	25	
80x40	x 2.00	3.60	49	
	x 2.50	4.47	36	
	x 3.00	5.34	36	
	x 4.00	6.97	25	
	x 5.00	8.54	25	
90x50	x 3.00	6.13	30	
	x 3.50	7.46	25	
	x 5.00	9.70	20	

Size mm	Thickness mm	Mass Kg/m	Pcs/Bundle	
			7.5mt	12mtr
100x50	x 2.00	4.53	36	
	x 3.00	6.75	25	
	x 4.00	8.86	25	
	x 5.00	10.90	20	
	x 6.00	13.00	20	
100x60	x 3.00	7.22	25	
	x 3.50	8.40	25	
	x 5.00	11.70	20	
	x 6.00	13.80	16	
120x60	x 3.00	8.10	25	
	x 4.00	10.70	25	
	x 5.00	13.30	20	
	x 6.00	15.80	20	
120x80	x 3.00	9.20	20	
	x 5.00	14.80	16	
	x 6.00	17.60	12	
	x 8.00	22.90	9	
150x100	x 5.00	18.70	16	9
	x 6.00	22.30	12	6
	x 8.00	29.10	9	6

Size mm	Thickness mm	Mass Kg/m	Pcs/Bundle	
			7.5mt	12mtr
160x80	x 5.00	18.00	16	9
	x 6.00	21.30	12	9
	x 8.00	27.90	9	6
200x100	x 5.00	22.70	9	6
	x 6.00	26.90	9	6
	x 8.00	35.40	6	4
	x 10.00	43.60	6	4
	x 12.00	47.10	4	2
200x150	x 8.00	41.70	6	4
	x 10.00	51.00	4	2
	x 12.00	60.20	4	2
250x150	x 8.00	48.00	4	4
	x 10.00	59.30	4	2
	x 12.00	70.10	2	2
300x200	x 6.00	47.90	4	4
	x 8.00	60.50	2	2
	x 10.00	75.00	2	2

HOLLOW SECTIONS BS EN 10219

Steel Hollow Sections: Size Range & Specifications

Cold-formed hollow sections designed, manufactured and supplied by Brisko Metal Resources and available in a range of dimensions at any required length or quantity.

Applications

SHS, CHS and RHS Steel Hollow Sections are suitable for a wide range of industrial sectors and industries.

Designed and manufactured with increased strength, structural steel ability and close tolerances

Construction Framework,
Railings & Balconies

Agriculture Fencing & Shelters

Utilities Telecoms, Electrical
Masts

Highways Steel Reinforcing,
Bridges, Barriers, Sign Posts &
Rails

Standard lengths: 7.5 meters and 12 meters | Any required length made to order

Surface finishing options: Lightly oiled, painted (black, blue, red) & hot dipped galvanised

Hollow section steel grades: S235, S275 & S355

CHS

Circular Hollow Section

Size mm		Thickness mm	Mass Kg/m	Pcs/Bundle 7.5mt
21.3	x	3.00	1.35	127
26.9	x	3.00	1.77	101
33.7	x	2.50	1.92	91
	x	3.00	2.27	91
	x	4.00	2.93	91
42.4	x	2.50	2.46	61
	x	3.00	2.91	61
48.3	x	2.50	2.82	61
	x	3.00	3.35	61
	x	4.00	4.37	61
	x	5.00	5.34	61

Size mm		Thickness mm	Mass Kg/m	Pcs/Bundle 7.5mt
60.3	x	3.00	4.24	37
	x	4.00	5.55	37
	x	5.00	6.82	37
76.1	x	3.00	5.41	42
	x	4.00	7.11	24
	x	5.00	8.77	24
88.9	x	3.00	6.36	19
	x	4.00	8.38	19
	x	5.00	10.30	19
101.3	x	3.00	7.30	19

Size mm		Thickness mm	Mass Kg/m	Pcs/Bundle 7.5mt
114.3	x	3.00	8.23	14
	x	3.50	9.56	14
	x	5.00	13.50	14
	x	6.00	16.00	14
139.7	x	3.00	10.10	10
	x	3.50	11.80	10
	x	5.00	16.60	10
	x	6.00	19.80	10
168.3	x	4.00	16.20	7
	x	5.00	20.10	7
	x	6.00	24.00	7

HOLLOW SECTIONS BS EN 10219

Steel Hollow Sections: Size Range & Specifications

Cold-formed hollow sections designed, manufactured and supplied by Brisko Metal Resources and available in a range of dimensions at any required length or quantity.

Standard lengths: 7.5 meters and 12 meters | Any required length made to order

Surface finishing options: Lightly oiled, painted (black, blue, red) & hot dipped galvanised

Hollow section steel grades: S235, S275 & S355

CALL OUR EXPERT TEAM OF ADVISORS ON

0208 974 6923

for information and enquiries or email us at

info@brisko.co.uk

Steel Hollow Sections: Tolerances & Tech Details

SHS, CHS and RHS steel hollow sections are manufactured in accordance to BS EN 10219 UK regulations and legislation.

RHS, SHS & CHS - Steel Tolerances

Outside Dimensions (B&H)	Side Length (mm)	Tolerance
	H,B <100	+1% with a min. +0.5mm
	100sH, Bs200	+0.8%
	H,B>200	+0.6%
Thickness	+10% for thickness < 5	+0.5mm for thickness> 5.0mm
Concavity / Convexity	Max 0.8% with a min of 0.5mm	
Squareness of Side	90+ 1	
External Corner Profile	T < 6.0mm - 1.6T to 2.4T, 6.0 <T<10.0mm - 2.0T to 3.0T, T> 10.0mm - 2.4T to 3.6T	
Twist	2.0mm+ 0.5mm/m length	

Straightness	0.15% of total length and 3.0mm over any 1m length	
Mass Per Unit Length	+ 6% on individual delivered length	

RHS, SHS & CHS - Mechanical Properties

Grade	Min Yield Strength Reh (Mpa)	Tensile Strength RM (MPa)		Elongation %Min	Min. Impact Energy (J)		
		Thk < 3mm	Thk > 3mm		-20°C	0°C	20°C
S235JRJ	235	360 - 510	360 - 510	24	-	-	-
S275J0H	275	430 - 580	410 - 560	20	-	27°C	27°C
S275J2H	275	430 - 580	410 - 560	20	27°C	-	-
S355J0H	355	510 - 680	470 - 630	20	-	27°C	27°C
S355J2H	355	510 - 680	470 - 630	20	27°C	-	-

Chemical Composition - (% max)

Grade	C	Si	Mn	P	S	N	Carbon Equivalent (CEV)
S235JRJ	0.17	-	1.40	0.040	0.040	0.009	0.35
S275J0H	0.20	-	1.50	0.035	0.035	0.009	0.40
S275J2H	0.20	-	1.50	0.030	0.030	-	0.40
S355J0H	0.22	0.55	1.60	0.035	0.035	0.009	0.45
S355J2H	0.22	0.55	1.60	0.030	0.030	-	0.45
Carbon Equivalent	Max carbon equivalent is: CEV = C + (Mn /6) + (Cr +Mo +V) /5 + (Ni + Cu) /15						



*Supporting YOUR Next
Project*

Brisko Metal Resources

Leading UK Steel Stockholders, Manufacturers & Suppliers

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