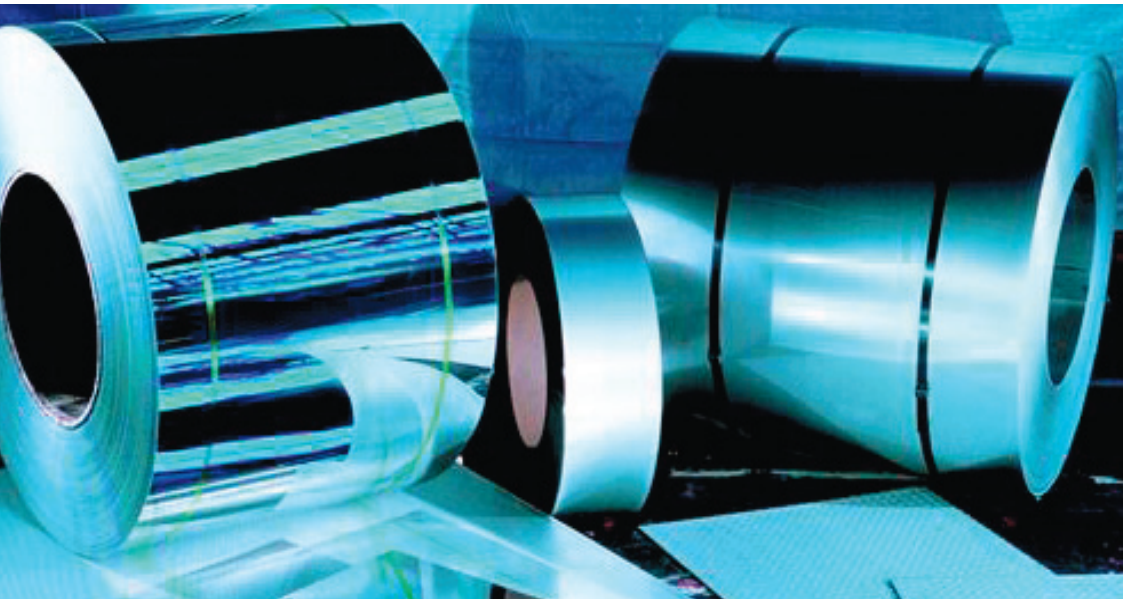


U.K. Steel Exports Ltd.

EXPORTERS OF ENG MATERIALS & FABRICATIONS



Certificate of Registration



This is to certify that the Quality Management System of

UK Steel Exports Limited

Blackvein Industrial Estate, Cross Keys, Newport, Gwent, NP11 7PX

applicable to

The procurement and export of ferrous and non-ferrous materials in various sections including fabricated structures, with or without surface treatment

has been assessed and registered by NQA against the provisions of

BS EN ISO 9001 : 2008

This registration is subject to the company maintaining a quality management system, to the above standard, which will be monitored by NQA.

Alan Ware

Certification Director



Certificate No:
Date:
Reissued:
Valid Until:
EAC Code:

7161
1 November 1995
30 January 2013
30 January 2016
29

AN ISO9001 REGISTERED COMPANY



Assured Quality of Product and Service

PRODUCT GUIDE

4th Edition

April 2014

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The Company:

U.K. Steel Exports Limited are highly experienced exporters of engineering materials, the company was formed in 1985 and has since built up a substantial customer base throughout the world.

Our range of material supplied includes, but is not limited to, Mild Structural Steels, Carbon Steels, Stainless Steels and Aluminium, Bronze, Brass, Cast Iron, Copper and Copper Alloys, Engineering Plastics as well as Wear Resistant and Pressure Vessel material to name but a few.

Our processing services include Bespoke Cutting and Rolling, Shot Blasting & Priming and Galvanising.

We also supply a wide range of Fabricated Structures, and have been involved in some very interesting projects including:

- Fabricated Pipes, Flanged Pipes
- Purpose Built Buildings
- Fabricated River Bridges
- Storage Tanks
- Hoppers & Chutes

With our vast experience in these areas and wide range of materials we supply, we are confident that U.K. Steel Exports Limited can provide you with the very best solutions and service whatever your requirements may be.



NON-FERROUS MATERIALS & STAINLESS STEEL

ALUMINIUM

Aluminium can be easily formed by all the main production processes and is available in a range of alloys giving properties suitable for an ever increasing number of applications.

Supplied in: Sheet, Plate, Round Bars, Flat Bars, Angles and Channels

COPPER & COPPER ALLOYS

Whether your requirement is for Rod, Sheet, Wire, Strip, Plate, Section or Tube we can supply all your needs.

Also amongst the services offered are:

- Plate sawing
- Shearing
- Cutting of Tube, Bar and Sections
- Polishing
- Protective Coating
- Lacquering

STAINLESS STEEL

There are five classes of stainless steel namely, Martensitic, Ferritic, Austenitic, Duplex and Precipitation Hardening.

Martensitic stainless steels are not as corrosion-resistant as the other classes but are extremely strong and tough, as well as highly machinable, and can be hardened by heat treatment. It is quenched and magnetic.

Ferritic stainless steels generally have better engineering properties than austenitic grades, but have reduced corrosion resistance, because of the lower chromium and nickel content. They are also usually less expensive.

Austenitic 200 & 300 series stainless steels have an austenitic crystalline structure, which is a face-centered cubic crystal structure. Austenite steels make up over 70% of total stainless steel production.

Duplex stainless steels have a mixed microstructure of austenite and ferrite, the aim usually being to produce a 50/50 mix, although in commercial alloys the ratio may be 40/60. Duplex stainless steels have roughly twice the strength compared to austenitic stainless steels and also improved resistance to localized corrosion, particularly pitting, crevice corrosion and stress corrosion cracking. They are characterized by high chromium (19–32%) and molybdenum (up to 5%) and lower nickel contents than austenitic stainless steels.

Precipitation-hardening martensitic stainless steels have corrosion resistance comparable to austenitic varieties, but can be precipitation hardened to even higher strengths than the other martensitic grades.

ALUMINIUM

Symbol EN 573-3	Chemical max. content % EN 573-3							
Grade	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
1050A	0.25	0.4	0.05	0.05	0.05	-	0.07	0.05
2017A	0.20-0.8	0.7	3.5-4.5	0.40-1.0	0.40-1.0	0.1	0.25	-
2024	0.5	0.5	3.8-4.9	0.3-0.9	1.2-1.8	0.1	0.25	0.15
3103	0.5	0.7	0.1	0.9-1.5	0.3	0.1	0.2	-
4017	0.6-1.6	0.7	0.10-0.50	0.6-1.2	0.10-0.50	-	0.2	-
5005	0.3	0.7	0.2	0.2	0.5-1.1	0.1	0.25	-
5026	0.55-1.4	0.20-1.0	0.10-0.30	0.6-1.8	3.9-4.9	0.3	1	0.2
5083	0.4	0.4	0.1	0.40-1.0	4.0-4.9	0.05-0.25	0.25	0.15
5754	0.4	0.4	0.1	0.5	2.6-3.6	0.3	0.15	0.15
6063	0.2-0.6	0.35	0.1	0.1	0.45-0.9	0.1	0.1	0.1
6082	0.7-1.3	0.5	0.1	0.40-1.0	0.6-1.2	0.25	0.2	0.1
7075	0.4	0.5	1.2-2.0	0.3	2.1-2.9	0.18-0.28	5.1-6.1	0.2

Naturally hardenable	1000- series	3000- series	4000- series	5000- series	8000- series	Alloys are hardened with alloying and cold working
Work- hardenable	2000- series	6000- series	7000- series			Alloys are hardened with precipitation hardening

Other grades available on request.

BRASS, BRONZE, COPPER & NICKEL ALLOYS

Alloy Name	Related Specifications			Mechanical Properties			
	BS	UNS	BS EN	Ultimate Tensile Strength N/mm ²	Proof Stress N/mm ²	Elongation %	Hardness HB
Brass							
CZ101	CZ101	C22000	CW501L				
CZ106	CZ106	C26000	CW505L	340	-	20	95HV
CZ108	CZ108	C27400	CW508L	350		15	100HV
CZ112	CZ112	C46400	CW712R	350-400	-	15-20	
CZ121	CZ121	C38500	CW614N	350-425	-	15-25	
CZ122	CZ122		CW617N	350-425	-	18-25	
CZ131	CZ131		CW606N	330-350	-	22-28	
Phosphor Bronze							
PB102	PB102	C51000	CW451K	280-500	80-410	12-25	
Copper							
C101	C101	C11000	CW004A	-	-	-	-
C106	C106	C12200	CW024A	-	-	-	-
Nickel Superalloys							
Alloy 600	BS3076 NA14	N06600		550	240	30	-
Alloy 625	BS3076 NA21	N06625		690	275	30	-
Alloy 800	BS3076 NA15	N08800		450	170	30	-
Alloy 825	BS3076 NA16	N08825		590	220	30	-

The range of Brass, Bronze, Copper & Nickel Alloys is vast. If the above products do not suit you – Please ask.

CAST IRON ROUND BARS – BS1452 GRADE 250/260

SIZE mm	WEIGHT Kg/m	SIZE mm	WEIGHT Kg/m	SIZE mm	WEIGHT Kg/m
20	3	110	72	250	369
25	4	115	78	260	399
30	5	120	85	270	431
35	7	125	95	280	463
40	9	130	100	290	497
45	12	135	108	300	532
50	15	140	116	310	568
55	18	145	124	320	605
60	21	150	133	330	643
65	25	160	151	340	683
70	29	170	171	350	723
75	33	180	191	360	765
80	38	190	213	370	809
85	43	200	236	380	853
90	48	210	260	390	898
95	53	220	286	400	945
100	59	230	312	420	1042
150	65	240	340		

Larger size proof machined bars available on request.

STAINLESS STEELS

SAE	UNS	% Cr	% Ni	% C	% Mn	% Si	% P	% S	% N	Other
Austenitic										
301	S30100	16–18	6–8	0.15	2	0.75	0.05	0.03	-	-
304	S30400	18–20	8–10.50	0.08	2	0.75	0.05	0.03	0.1	-
304L	S30403	18–20	8–12	0.03	2	0.75	0.05	0.03	0.1	-
310	S31000	24–26	19–22	0.25	2	1.5	0.05	0.03	-	-
310S	S31008	24–26	19–22	0.08	2	1.5	0.05	0.03	-	-
316	S31600	16–18	10–14	0.08	2	0.75	0.05	0.03	0.1	2.0–3.0 Mo
316L	S31603	16–18	10–14	0.03	2	0.75	0.05	0.03	0.1	2.0–3.0 Mo
321	S32100	17–19	9–12	0.08	2	0.75	0.05	0.03	0.10 max	Ti 5(C+N) min, 0.70 max
347	S34700	17–19	9–13	0.08	2	0.75	0.05	0.03	-	Nb + Ta, 10 x C min, 1 max
SAE	UNS	% Cr	% Ni	% C	% Mn	% Si	% P	% S	% N	Other
Ferritic										
409	S40900	10.5–11.75	0.05	0.08	1	1	0.05	0.03	-	Ti 6 x (C + N) [10]
430	S43000	16–18	0.75	0.12	1	1	0.04	0.03	-	-
SAE	UNS	% Cr	% Ni	% C	% Mn	% Si	% P	% S	% N	Other
Martensitic										
410	S41000	11.5–13.5	0.75	0.15	1	1	0.04	0.03	-	-
420	S42000	12–14	-	0.15 min	1	1	0.04	0.03	-	-
440B	S44003	16–18	-	0.75–0.95	1	1	0.04	0.03	-	0.75 Mo
SAE	UNS	% Cr	% Ni	% C	% Mn	% Si	% P	% S	% N	Other
Heat resisting										
501	S50100	4–6	-	0.10 min	1	1	0.04	0.03	-	0.40–0.65 Mo
502	S50200	4–6	-	0.1	1	1	0.04	0.03	-	0.40–0.65 Mo
Martensitic precipitation hardening										
630	S17400	15–17	03–05	0.07	1	1	0.04	0.03	-	Cu 3–5, Ta 0.15–0.45 [11]

STRUCTURAL STEEL GRADES & COMPARISON

Euronorm	Germany	UK	USA	France
EN10025	DIN 17100	BS4360	ASTM	NFA 35-501
S185	St33		A283B	A33
S235JR	St37-2	40B	A283C-A	
S235JO	St37-3 U	40C		E24-2
S235J2	St37-3 N	40D		E24-4
S275JR	St44-2	43B	A283D-A	E28-2
S275JO	St44-3 U	43C	A578 Gr70	E28-3
S275J2	St44-3 N	43D		E28-4
S355JR		50B		E36-2
S355JO	St52-3 U	50C	A441	E36-3
S355J2	St52-3 N	50D		E36-4
S355K2		50DD		
S450J2		55C		

Euronorm	Chemical composition					Mechanical prop.	
	%C	%Mn	%Si	%S	%P	Yield min.	Tensile
S185							
S235JR	0.17max	1.40max	-	0.045	0.045	235	360/510
S235JO	0.17max	1.40max	-	0.04	0.04	235	360/510
S235J2	0.17max	1.40max	-	0.035	0.035	235	360/510
S275JR	0.21max	1.50max	-	0.035max	0.035max	275	410/580
S275JO	0.18max	1.50max	-	0.030max	0.030max	275	410/580
S275J2	0.18max	1.50max	-	0.025max	0.025max	275	410/580
S355JR	0.24max	1.60max	0.55max	0.035max	0.035max	355	470/630
S355JO	0.20max	1.60max	0.55max	0.030max	0.030max	355	470/630
S355J2	0.20max	1.60max	0.55max	0.025max	0.025max	355	470/630
S355K2	0.20max	1.60max	0.55max	0.025max	0.025max	355	470/630
S450J2	0.20max	1.70max	0.55max	0.030max	0.030max	450	550/720

PRESSURE VESSEL & WEAR RESISTANT PLATES

We supply a wide range of pressure vessel steel plate grades for working environments where safe operating pressure is critical.

Our pressure vessel steel is mostly of Western European origin which is the steel of choice for the world's boiler & pressure vessel fabricators.

U.K. Steel Exports Limited have a global reputation for the supply of high quality pressure vessel steel to these fabricators and many of them are suppliers to some of the world's largest gas, oil and petrochemical companies.

BS	EN	ASTM ASME	DIN
161-360A	P235GH	A285-C	H1
161-430A	P265GH	A516-60	H11
223-490A/B	-	-	-
224-460A/B	P295GH	A516-65	17Mn4
224-490A/B	P355GH	A516-70	-
225-490A/B	P355N/NH	-	19Mn6
243	16Mo3	A204-A	15Mo3
620 B	13CrMo45	A387-12-2	13CrMo44
621 B	-	A387-11-2	-
622-515B	10CrMo910	A387-22-2	10CrMo910
-		A387-5-2	-
-		A387-9-2	-

High strength and wear resistant steel with favourable hardness and impact toughness. With wear resistant steel you can extend the lifespan of machinery, decrease wear in structural components and save costs. It also enables innovative design and lightweight products improving energy efficiency.

Wear resistant plates are available in various levels of hardness ranging from 270 – 600BHN.

SPARK ARRESTORS

All our Spark Arrestors have been stringently tested, either in the U.K. or Sweden, for their spark arresting abilities, and meet all the necessary requirements of OCMA MEC 1, BP200, Ministry of Defence, Swedish Inspectorate of Explosives, Swedish Agricultural Machinery Testing Institute and many other safety specifications. We are a quality assessed company and can offer full certification on request.

Spark Arrestors come in 3 basic ranges, offering a variety of shapes and sizes for engines up to 500hp (per exhaust). A full design service is available to manufacturers and importers to ensure an efficient and unobtrusive installation. Units are available in mild or stainless steel construction.

PRODUCTS

LEGISLATION

FITTING INSTRUCTIONS

- ✓ Oil & Gas Industries
- ✓ Pharmaceutical
- ✓ Petrochemical Industry
- ✓ Mining
- ✓ Timber/Paper Handling & Processing
- ✓ Military Munitions/Aviation
- ✓ Agriculture/Forestry

Spark Arresters are designed as a safety device, specifically for preventing the risk of fire caused by the spread of sparks emitted from diesel engines. All diesel engines have the potential to emit sparks even the latest clean engines, this is due to the high carbon particulate content, carbon build up and the high ratio of free oxygen in the exhaust gas when going on and off load. The amount of energy carried by these sparks and the risk of them being transmitted over large areas in the presence of flammable materials, gases or dust can significantly increase the chances of igniting fires or causing explosions.

Under many Health and Safety guidelines and legislation, such as ATEX, this potential risk has been identified as the cause of many catastrophic fires over the years and the fitting of a Spark Arrestor and other protective measures has been mandated as an important means of reducing this. For this reason Spark Arresters are mandatory equipment in many industries where potentially explosive environments are common.

The fitting of Spark Arresters should be considered in any risk assessment programme and always as an essential component of any ATEX installation covered by EN1834.

Ex



ROUND BARS

Size in mm	Weight kg/m
5	0.154
6	0.221
7	0.302
8	0.394
9	0.499
10	0.616
11	0.746
12	0.887
13	1.041
14	1.208
15	1.387
16	1.578
17	1.781
18	1.997
19	2.225
20	2.466
21	2.718
22	2.984
23	3.261
24	3.551
25	3.853
27	4.494
29	5.185
30	5.548

Size in mm	Weight kg/m
32	6.313
35	7.552
38	8.902
40	9.864
42	10.876
45	12.485
48	14.205
50	15.413
55	18.65
58	20.74
60	22.195
61	22.941
63	24.47
65	26.049
67	27.676
70	30.21
75	34.68
80	39.458
85	44.545
90	49.94
95	55.642
100	61.654
105	67.973
110	74.601

Size in mm	Weight kg/m
115	81.537
120	88.781
125	96.334
130	104.19
135	112.36
140	120.84
150	138.72
155	148.12
160	157.83
170	178.18
180	199.76
190	222.57
200	246.61
210	271.89
220	298.4
230	326.15
240	355.13
250	385.34
260	416.78
270	449.46
280	483.37
290	518.51
300	544.88
320	631.33

SQUARE BARS



HEXAGON BARS



Size in mm	Weight kg/m
6	0.282
8	0.502
10	0.785
12	1.13
15	1.766
16	2.009
20	3.14
22	3.751
25	4.906
30	7.065
32	7.936
35	9.616
40	12.56
45	15.896
50	19.625
60	28.26
65	33.166
70	38.465
75	44.156
80	50.24
90	63.585
100	78.5
110	94.985
120	113.04
150	176.63

Size A/F in mm	Weight kg/m
5	0.168
6	0.242
7	0.329
8	0.43
10	0.672
11	0.813
12	0.967
13	1.135
14	1.317
16	1.72
17	1.941
19	2.425
20	2.687
22	3.251
24	3.869
25	4.198
26	4.541
27	4.897
30	6.045
32	6.878
35	8.228
36	8.705
41	11.291
46	14.213
50	16.793

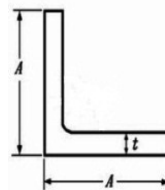
FLAT BARS

Weight in Kilograms per metre

Width														
mm		10	12	16	20	25	30	35	40	45	50	55	60	65
Thickness	3	0.24	0.28	0.38	0.47	0.59	0.71		0.94	1.06	1.18		1.41	1.53
	5	0.39	0.47	0.63	0.78	0.98	1.18	1.37	1.57	1.77	1.96	2.16	2.36	2.55
	6		0.57	0.75	0.94	1.18	1.41	1.65	1.88	2.12	2.36	2.59	2.83	3.06
	8		0.75		1.26	1.57	1.88	2.2	2.51	2.83	3.14	3.45	3.77	4.08
	10		0.94		1.57	1.96	2.36	2.75	3.14	3.53	3.93	4.32	4.71	5.1
	12				1.89	2.36	2.83	3.3	3.77	4.24	4.71	5.18	5.65	6.12
	15					2.94	3.53	4.12	4.71	5.3	5.89	6.48	7.07	7.65
	20					3.93	4.71	5.5	6.28	7.07	7.85	8.64	9.42	10.2
	25						5.89	6.87	7.85	8.83	9.81	10.8	11.8	12.8
	30								9.42	10.6	11.8	13	14.4	15.3
	35								11	12.3	13.7	15.1	16.5	17.9
	40										15.7	17.2	18.8	20.4
	45												21.2	23
	50												23.6	25.5

Width													
mm	70	75	80	90	100	110	120	130	140	150	180	200	
Thickness	3	1.65		1.88		2.36			3.06		3.53		
	5	2.75	2.94	3.14	3.53	3.93	4.32	4.71	5.1	5.5	5.89		
	6	3.3	3.53	3.77	4.24	4.71	5.18	5.65	6.12	6.6	7.05	8.48	9.42
	8	4.4	4.71	5.02	5.65	6.28	6.91	7.54	8.16	8.79	9.42	11.3	12.56
	10	5.5	5.89	6.28	7.07	7.85	8.64	9.42	10.2	11	11.8	14.13	15.7
	12	6.59	7.07	7.54	8.48	9.42	10.4	11.3	12.2	13.2	14.1	16.96	18.84
	15	8.24	8.83	9.42	10.6	11.8	13	14.1	15.3	16.5	17.7	21.2	23.55
	20	11	11.8	12.6	14.1	15.7	17.3	18.8	20.4	22	23.6	28.26	31.4
	25	13.7	14.7	15.7	17.7	19.6	21.6	23.6	25.5	27.5	29.4	35.33	39.25
	30	16.5	17.7	18.8	21.2	23.6	25.9	28.3	30.6	33	35.3	42.39	47.1
	35	19.2	20.6	22	24.7	27.5	30.2	33	35.7	38.4	41.2		
	40	22	23.6	25.1	28.3	31.4	34.5	37.7	40.8	44	47.1	56.52	62.8
	45	24.7	26.5	28.3	31.8	35.3	38.9	42.2	45.9	49.4	53		
	50	27.5	29.4	31.4	35.3	39.9	43.2	47.1	51	55	58.9	70.65	78.5
	60		35.2	37.6	42.4	47.1	51.8	56.5	61.2	65.9	70.7		
	65		38.3	40.8	45.9	51	56.1	61.2	66.3				
	75					58.9							

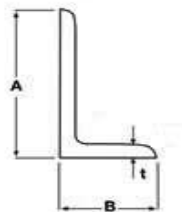
EQUAL ANGLES



Size A	Thickness t		Kg/M
20 x 20	3	mm	0.88
25 x 25	3	mm	1.12
25 x 25	4	mm	1.45
25 x 25	5	mm	1.77
30 x 30	3	mm	1.37
30 x 30	4	mm	1.78
30 x 30	5	mm	2.18
30 x 30	6	mm	2.57
40 x 40	3	mm	1.84
40 x 40	4	mm	2.42
40 x 40	5	mm	2.97
40 x 40	6	mm	3.52
45 x 45	3	mm	2.09
45 x 45	4	mm	2.74
45 x 45	5	mm	3.38
45 x 45	6	mm	4.00
50 x 50	3	mm	2.36
50 x 50	4	mm	3.07
50 x 50	5	mm	3.77
50 x 50	6	mm	4.47
50 x 50	8	mm	5.82
60 x 60	5	mm	4.57
60 x 60	6	mm	5.42
60 x 60	8	mm	7.09
60 x 60	10	mm	8.69
70 x 70	6	mm	6.38
70 x 70	8	mm	8.36
70 x 70	10	mm	10.30

Size A	Thickness t		Kg/M
75 x 75	6	mm	6.86
75 x 75	8	mm	9.03
75 x 75	10	mm	11.07
80 x 80	6	mm	7.30
80 x 80	8	mm	9.66
80 x 80	10	mm	11.90
90 x 90	6	mm	8.25
90 x 90	8	mm	10.90
90 x 90	10	mm	13.45
90 x 90	12	mm	15.93
100 x 100	8	mm	12.18
100 x 100	10	mm	15.07
100 x 100	12	mm	17.82
100 x 100	15	mm	21.90
120 x 120	8	mm	14.70
120 x 120	10	mm	18.20
120 x 120	12	mm	21.60
120 x 120	15	mm	26.60
150 x 150	10	mm	23.00
150 x 150	12	mm	27.30
150 x 150	15	mm	33.80
150 x 150	18	mm	40.10
200 x 200	16	mm	48.50
200 x 200	18	mm	54.20
200 x 200	20	mm	59.90
200 x 200	24	mm	71.70

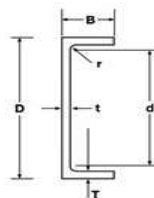
UNEQUAL ANGLES



Size <i>A x B</i>	Thickness <i>t</i>		Kg/M
40 x 20	4	mm	1.77
40 x 20	5	mm	2.17
40 x 25	4	mm	1.94
40 x 25	5	mm	3.37
50 x 40	5	mm	3.35
50 x 40	6	mm	3.98
60 x 30	5	mm	3.37
60 x 30	6	mm	3.98
65 x 50	5	mm	4.35
65 x 50	6	mm	5.16
65 x 50	8	mm	6.76
75 x 50	6	mm	5.65
75 x 50	8	mm	7.40
75 x 50	10	mm	8.97
80 x 60	6	mm	6.37
80 x 60	8	mm	8.34
100 x 50	8	mm	8.99
100 x 65	7	mm	8.77
100 x 65	8	mm	9.94
100 x 65	10	mm	12.30

Size <i>A x B</i>	Thickness <i>t</i>		Kg/M
100 x 75	8	mm	10.60
100 x 75	10	mm	13.00
100 x 75	12	mm	15.40
125 x 75	8	mm	12.20
125 x 75	10	mm	15.00
125 x 75	12	mm	17.80
150 x 75	10	mm	17.00
150 x 75	12	mm	20.20
150 x 75	15	mm	24.80
150 x 90	10	mm	18.20
150 x 90	12	mm	21.60
150 x 90	15	mm	26.60
200 x 100	10	mm	23.00
200 x 100	12	mm	27.30
200 x 100	15	mm	33.70
200 x 150	12	mm	32.00
200 x 150	15	mm	39.60
200 x 150	18	mm	47.10

PARALLEL FLANGE CHANNELS

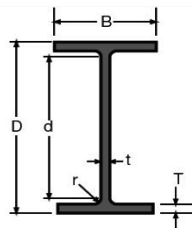


Dimensions	Mass per metre	Depth of section	Width of section	Thickness		Depth Between Fillets
	Kg/Mtr	D (mm)	B (mm)	t (mm)	T (mm)	D (mm)
100 x 50 x 10	10.2	100	50	5	8.5	65
125 x 65 x 15	14.8	125	65	5.5	9.5	82
150 x 75 x 18	17.9	150	75	5.5	10	106
150 x 90 x 24	23.9	150	90	6.5	12	102
180 x 75 x 20	20.3	180	75	6	10.5	135
180 x 90 x 26	26.1	180	90	6.5	12.5	131
200 x 75 x 23	23.4	200	75	6	12.5	151
200 x 90 x 30	29.7	200	90	7	14	148
230 x 75 x 26	25.7	230	75	6.5	12.5	181
230 x 90 x 32	32.2	230	90	7.5	14	178
260 x 75 x 28	27.6	260	75	7	12	212
260 x 90 x 35	34.8	260	90	8	14	208
300 x 90 x 41	41.4	300	90	9	15.5	245
300 x 100 x 46	45.5	300	100	9	16.5	237
380 x 100 x 54	54	380	100	9.5	17.5	315
430 x 100 x 64	64.4	430	100	11	19	362

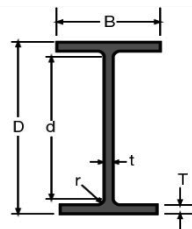
EUROPEAN CHANNELS

Dimensions	KG/MTR	D (mm)	B (mm)	t (mm)	T (mm)
30 X 15	1.74	30	15	4	4.5
40 X 20	2.87	40	20	5	5.5
40 X 35	4.87	40	35	5	7
50 X 25	3.86	50	25	5	6
50 X 38	5.59	50	38	5	7
60 X 30	5.07	60	30	6	6
65 X 42	7.09	65	42	5.5	7.5
70 X 40	6.77	70	40	6	6.5
UPN 80	8.64	80	45	6	8
UPN 100	10.6	100	50	6	8.5
UPN 120	13.4	120	55	7	9
UPN 140	16	140	60	7	10
UPN 160	18.8	160	65	7.5	10.5
UPN 180	22	180	70	8	11
UPN 200	25.3	200	75	8.5	11.5
UPN 220	29.4	220	80	9	12.5
UPN 240	33.2	240	85	9.5	13
UPN 260	37.9	260	90	10	14
UPN 280	41.8	280	95	10	15

UNIVERSAL BEAMS



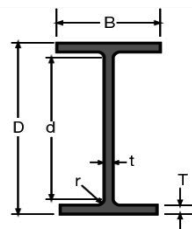
Dimensions	Wgt. Kg/M	Depth D (mm)	Width B (mm)	Thickness		Imperial Dimensions		
				t (mm)	T (mm)	Size In Inches	Wgt. lb per foot	U.S. Term
127 x 76 x 13	13	127	76	4	7.6	5 x 3	9	
152 x 89 x 16	16	152.4	88.7	4.5	7.7	6 x 3.5	11	
178 x 102 x 19	19	177.8	101.2	4.8	7.9	7 x 4	13	
203 x 102 x 23	23.1	203.2	101.8	5.4	9.3	8 x 4	15.5	
203 x 133 x 25	25.1	203.2	133.2	5.7	7.8	8 x 5.25	17	W8
203 x 133 x 30	30	206.8	133.9	6.4	9.6		20	
254 x 102 x 22	22	254	101.6	5.7	6.8	10 x 4	15	W10
254 x 102 x 25	25.2	257.2	101.9	6	8.4		17	
254 x 102 x 28	28.3	260.4	102.2	6.3	10		19	
254 x 146 x 31	31.1	251.4	146.1	6	8.6	10 x 5.75	21	W10
254 x 146 x 37	37	256	146.4	6.3	10.9		25	
254 x 146 x 43	43	259.6	147.3	7.2	12.7		29	
305 x 102 x 25	24.8	305.1	101.6	5.8	7	12 x 4	16.5	W12
305 x 102 x 28	28.2	308.7	101.8	6	8.8		19	
305 x 102 x 33	32.8	312.7	102.4	6.6	10.8		22	
305 x 127 x 37	37	304.4	123.3	7.1	10.7	12 x 5	25	W12
305 x 127 x 42	41.9	307.2	124.3	8	12.1		28	
305 x 127 x 48	48.1	311	125.3	9	14		32	
305 x 165 x 40	40.3	303.4	165	6	10.2	12 x 6.5	27	W12
305 x 165 x 46	46.1	306.6	165.7	6.7	11.8		31	
305 x 165 x 54	54	310	166.9	7.9	13.7		36	
356 x 127 x 33	33.1	349	125.4	6	8.5	14 x 5	22	W14
356 x 127 x 39	39.1	353.4	126	6.6	10.7		26	
356 x 171 x 45	45	351.4	171.1	7	9.7	14 x 6.75	30	W14
356 x 171 x 51	51	355	171.5	7.4	11.5		34	
356 x 171 x 57	57	358	172.2	8.1	13		38	
356 x 171 x 67	67.1	363.4	173.2	9.1	15.7		45	
406 x 140 x 39	39	398	141.8	6.4	8.6	16 x 5.5	26	W16
406 x 140 x 46	46	403.2	142.2	6.8	11.2		31	
406 x 140 x 53	53.3	406.6	143.3	7.9	12.9			
406 x 178 x 54	54.1	402.6	177.7	7.7	10.9	16 x 7	36	W16
406 x 178 x 60	60.1	406.4	177.9	7.9	12.8		40	
406 x 178 x 67	67.1	409.4	178.8	8.8	14.3		45	
406 x 178 x 74	74.2	412.8	179.5	9.5	16		50	
406 x 178 x 85	85.3	417.2	181.9	10.9	18.2		57	



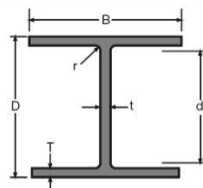
UNIVERSAL BEAMS

Dimensions	Wgt. Kg/M	Depth D (mm)	Width B (mm)	Thickness		Imperial Dimensions		
				t (mm)	T (mm)	Size In Inches	Wgt. lb per foot	U.S. Term
457 x 152 x 52	52.3	449.8	152.4	7.6	10.9	18 x 6	35	W18
457 x 152 x 60	59.8	454.6	152.9	8.1	13.3		40	
457 x 152 x 67	67.2	458	153.8	9	15		45	
457 x 152 x 74	74.2	462	154.4	9.6	17		50	
457 x 152 x 82	82.1	465.8	155.3	10.5	18.9		55	
457 x 191 x 67	67.1	453.4	189.9	8.5	12.7	18 x 7.5	45	W18
457 x 191 x 74	74.3	457	190.4	9	14.5		50	
457 x 191 x 82	82	460	191.3	9.9	16		55	
457 x 191 x 89	89.3	463.4	191.9	10.5	17.7		60	
457 x 191 x 98	98.3	467.2	192.8	11.4	19.6		66	
457 x 191 x 106	106	469.2	194	12.6	20.6		71	
457 x 191 x 133	133	480.6	196.7	15.3	26.3		89	
457 x 191 x 161	161	492	199.4	18	32		108	
533 x 165 x 66	65.7	524.7	165.1	8.9	11.4	21 x 6.5	44	W21
533 x 165 x 75	74.7	529.1	165.9	9.7	13.6		50	
533 x 165 x 85	84.8	534.9	166.5	10.3	16.5		57	
533 x 210 x 82	82.2	528.3	208.8	9.6	13.2	21 x 8.25	55	W21
533 x 210 x 92	92.1	533.1	209.3	10.1	15.6		62	
533 x 210 x 101	101	536.7	210	10.8	17.4		68	
533 x 210 x 109	109	539.5	210.8	11.6	18.8		73	
533 x 210 x 122	122	544	211.9	12.7	21.3		82	
533 x 210 x 138	138	549.1	213.9	14.7	23.6		93	
533 x 312 x 151	151	542.5	312	12.7	20.3	21 x 12.25	101	W21
533 x 312 x 182	182	550.7	314.5	15.2	24.4		122	
533 x 312 x 219	219	560.3	317.4	18.3	29.2		147	
533 x 312 x 273	273	577.1	320.2	21.1	37.6		183	
610 x 178 x 82	81.8	598.6	177.9	10	12.8	24 x 7	55	W24
610 x 178 x 92	92.2	603	178.8	10.9	15		62	
610 x 178 x 100	100	607.4	179.2	11.3	17.2		67	
610 x 229 x 101	101	602.6	227.6	10.5	14.8	24 x 9	68	W24
610 x 229 x 113	113	607.6	228.2	11.1	17.3		76	
610 x 229 x 125	125	612.2	229	11.9	19.6		84	
610 x 229 x 140	140	617.2	230.2	13.1	22.1		94	

UNIVERSAL BEAMS



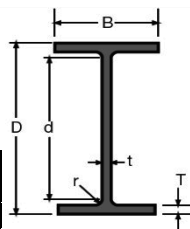
Dimensions	Wgt. Kg/M	Depth D (mm)	Width B (mm)	Thickness		Imperial Dimensions		
				t (mm)	T (mm)	Size In Inches	Wgt. lb per foot	U.S. Term
610 x 305 x 149	149	612.4	304.8	11.8	19.7	24 x 12	100	W24
610 x 305 x 179	179	620.2	307.1	14.1	23.6		120	
610 x 305 x 238	238	635.8	311.4	18.4	31.4		160	
686 x 254 x 125	125	677.9	253	11.7	16.2	27 x 10	84	W27
686 x 254 x 140	140	683.5	253.7	12.4	19		94	
686 x 254 x 152	152	687.5	254.5	13.2	21		102	
686 x 254 x 170	170	692.9	255.8	14.5	23.7		114	
762 x 267 x 134	134	750	264.4	12	15.5	30 x 10.5	90	W30
762 x 267 x 147	147	754	265.2	12.8	17.5		99	
762 x 267 x 173	173	762.2	266.7	14.3	21.6		116	
762 x 267 x 197	197	769.8	268	15.6	25.4		132	
838 x 292 x 176	176	834.9	291.7	14	18.8	33 x 11.5	118	W33
838 x 292 x 194	194	840.7	292.4	14.7	21.7		130	
838 x 292 x 226	227	850.9	293.8	16.1	26.8		152	
914 x 305 x 201	201	903	303.3	15.1	20.2	36 x 12	135	W36
914 x 305 x 224	224	910.4	304.1	15.9	23.9		150	
914 x 305 x 253	253	918.4	305.5	17.3	27.9		170	
914 x 305 x 281	289	926.6	307.7	19.5	32		189	
914 x 419 x 343	343	911.8	418.5	19.4	32	36 x 16.5	230	W36
914 x 419 x 388	388	921	420.5	21.4	36.6		260	
1016 x 305 x 222	222	970.3	300	16	21.1	40 x 12	149	W40
1016 x 305 x 249	249	980.1	300	16.5	26		167	
1016 x 305 x 272	272	990.1	300	16.5	31		183	
1016 x 305 x 314	314	999	300	19.1	35.9		211	
1016 x 305 x 349	349	1008.1	302	21.1	40		234	
1016 x 305 x 393	393	1015.9	303	24.4	43.9		264	
1016 x 305 x 437	437	1026.1	305.4	26.9	49		294	
1016 x 305 x 487	487	1036.3	308.5	30	54.1		327	



UNIVERSAL COLUMNS

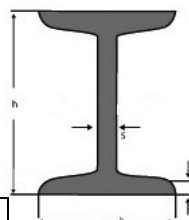
Dimensions	Wgt.	Depth	Width	Thickness		Imperial Dimensions		
	Kg/M	D (mm)	B (mm)	t (mm)	T (mm)	Size In Inches	Wgt. lb per foot	U.S. Term
152 x 152 x 23	23	152	152	5.8	6.8	6 x 6	15.7	W6
152 x 152 x 30	30	158	153	6.5	9.4		20	
152 x 152 x 37	37	162	154	8	12		25	
152 x 152 x 44	44	166	156	9.5	14		29	
152 x 152 x 51	51.2	170	157	11	16		34	
203 x 203 x 46	46.1	203	204	7.2	11	8 x 8	31	W8
203 x 203 x 52	52	206	204	7.9	13		35	
203 x 203 x 60	60	210	206	9.4	14		40	
203 x 203 x 71	71	216	206	10	17		48	
203 x 203 x 86	86.1	222	209	13	21		58	
203 x 203 x 100	99.6	229	210	15	24		67	
203 x 203 x 113	114	235	212	16	27		76	
203 x 203 x 127	128	241	214	18	30		85	
254 x 254 x 73	73.1	254	255	8.6	14	10 x 10	49	W10
254 x 254 x 89	88.9	260	256	10	17		60	
254 x 254 x 107	107	267	259	13	21		72	
254 x 254 x 132	132	276	261	15	25		89	
254 x 254 x 167	167	289	265	19	32		112	
305 x 305 x 97	96.9	308	305	9.9	15	12 x 12	65	W12
305 x 305 x 118	117	215	308	12	19		79	
305 x 305 x 137	137	321	309	14	22		92	
305 x 305 x 158	158	327	311	16	25		106	
305 x 305 x 198	198	340	315	19	31		133	
305 x 305 x 240	240	353	318	23	38		161	
305 x 305 x 283	283	365	322	27	44		190	
356 x 368 x 129	129	356	369	10	18	14 x 14.5	87	W14
356 x 368 x 153	153	362	371	12	21		103	
356 x 368 x 177	177	368	373	14	24		119	
356 x 368 x 202	202	375	375	17	27		136	
356 x 406 x 235	235	381	395	18	30	14 x 16	158	W14
356 x 406 x 287	287	394	399	23	37		193	
356 x 406 x 340	340	406	403	27	43		228	
356 x 406 x 393	393	419	407	31	49		264	
356 x 406 x 467	467	437	412	36	58		314	
356 x 406 x 551	551	456	419	42	68		370	
356 x 406 x 634	634	475	424	48	77		426	

EUROPEAN BEAMS - PARRALLEL-FACED FLANGES



Section	Weight Kg/M	Dimensions			
		D (mm)	B (mm)	t (mm)	T (mm)
IPE 80	6.00	80.0	46	3.8	5.2
IPE 100	8.10	100.0	55	4.1	5.7
IPE 120	10.40	120.0	64	4.4	6.3
IPE 140	12.90	140.0	73	4.7	6.9
IPE 160	15.80	160.0	82	5.0	7.4
IPE 180	18.80	180.0	91	5.3	8.0
IPE 200	22.40	200.0	100	5.6	8.5
IPE 220	26.20	220.0	110	5.9	9.2
IPE 240	30.70	240.0	120	6.2	9.8
IPE 270	36.10	270.0	135	6.6	10.2
IPE 300	42.20	300.0	150	7.1	10.7
IPE 330	49.10	330.0	160	7.5	11.5
IPE 360	57.1	360	170	8.0	12.7
IPE 400	66.3	400	180	8.6	13.5
IPE 450	77.6	450	190	9.4	14.6
IPE 500	90.7	500	200	10.2	16.0
IPE 550	106.0	550	210	11.1	17.2
IPE 600	122.0	600	220	12.0	19.0

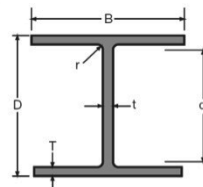
EUROPEAN STANDARD BEAMS



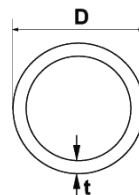
Section	Weight Kg/M	Dimensions			
		h (mm)	b (mm)	s (mm)	t (mm)
IPN 160	17.9	160	74	6.3	9.5
IPN 180	21.9	180	82	6.9	10.4
IPN 200	26.2	200	90	7.5	11.3
IPN 220	31.1	220	98	8.1	12.2
IPN 240	36.2	240	106	8.7	13.1
IPN 260	41.9	260	113	9.4	14.1
IPN 280	47.9	280	119	10.1	15.2
IPN 300	54.2	300	125	10.8	16.2
IPN 320	61.0	320	131	11.5	17.3
IPN 340	68.0	340	137	12.2	18.3
IPN 360	76.1	360	143	13.0	19.5
IPN 380	84.0	380	149	13.7	20.5
IPN 400	92.4	400	155	14.4	21.6
IPN 450	115.0	450	170	16.2	24.3
IPN 500	141.0	500	185	18.0	27.0
IPN 450	166.0	550	200	19.0	30.0

EUROPEAN WIDE FLANGE BEAMS

HEA, HEB and HEM



Section	Kg/M	Dimensions				Section	Kg/M	Dimensions			
		D (mm)	B (mm)	t (mm)	T (mm)			D (mm)	B (mm)	t (mm)	T (mm)
HEA100	16.7	96	100	5	8	HEA340	105	330	300	9.5	16.5
HEB100	20.4	100	100	6	10	HEB340	134	340	300	12	21.5
HEM100	41.8	120	106	12	20	HEM340	248	377	309	21	40
HEA120	19.9	114	120	5	8	HEA360	112	350	300	10	17.5
HEB120	26.7	120	120	6.5	11	HEB360	142	360	300	12.5	22.5
HEM120	52.1	140	126	12.5	21	HEM360	250	395	308	21	40
HEA140	24.7	133	140	5.5	8.5	HEA400	125	390	300	11	19
HEB140	33.7	140	140	7	12	HEB400	155	400	300	13.5	24
HEM140	63.2	160	146	13	22	HEM400	256	432	307	21	40
HEA160	30.4	152	160	6	9	HEA450	140	440	300	11.5	21
HEB160	42.6	160	160	8	13	HEB450	171	450	300	14	26
HEM160	76.2	180	166	14	23	HEM450	263	478	307	21	40
HEA180	35.5	171	180	6	9.5	HEA500	155	490	300	12	23
HEB180	51.2	180	180	8.5	14	HEB500	187	500	300	14.5	28
HEM180	88.9	200	186	14.5	24	HEM500	270	524	306	21	40
HEA200	42.3	190	200	6.5	10	HEA550	166	540	300	12.5	24
HEB200	61.3	200	200	9	15	HEB550	199	550	300	15	29
HEM200	103	220	206	15	25	HEM550	278	572	306	21	40
HEA220	50.5	210	220	7	11	HEA600	178	590	300	13	25
HEB220	71.5	220	220	9.5	16	HEB600	212	600	300	15.5	30
HEM220	117	240	226	15.5	26	HEM600	285	620	305	21	40
HEA240	60.3	230	240	7.5	12	HEA650	190	640	300	13.5	26
HEB240	83.2	240	240	10	17	HEB650	225	650	300	16	31
HEM240	157	270	248	18	32	HEM650	293	668	305	21	40
HEA260	68.2	250	260	7.5	12.5	HEA700	204	690	300	14.5	27
HEB260	93	260	260	10	17.5	HEB700	241	700	300	17	32
HEM260	172	290	268	18	32.5	HEM700	301	716	304	21	40
HEA280	76.4	270	280	8	13	HEA800	224	790	300	15	28
HEB280	103	280	280	10.5	18	HEB800	262	800	300	17.5	33
HEM280	189	310	288	18.5	33	HEM800	317	814	303	21	40
HEA300	88.3	290	300	8.5	14	HEA900	252	890	300	16	30
HEB300	117	300	300	11	19	HEB900	291	900	300	18.5	35
HEM300	238	340	310	21	39	HEM900	333	910	302	21	40
HEA320	97.6	310	300	9	15.5						
HEB320	127	320	300	11.5	20.5						
HEM320	245	359	309	21	40						

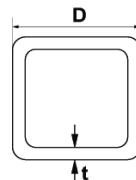


CIRCULAR HOLLOW SECTIONS

Outside Dia (D) mm	Thickness (t) mm	Mass Kg/M
21.3	3.2	1.43
26.9	2.5	1.5
	3.2	1.87
33.7	2.5	1.92
	3	2.27
42.4	4	2.93
	2.5	2.46
	3	2.91
48.3	4	3.79
	2.5	2.82
	3	3.35
60.3	4	4.37
	5	5.34
	3	4.24
76.1	4	5.55
	5	6.82
	3	5.41
88.9	4	7.11
	5	8.77
	3	6.36
101.6	3.6	7.57
	4	8.38
	5	10.3
114.3	3.2	7.9
	6.3	14.9
	3	8.23
139.7	3.6	9.83
	4	10.9
	5	13.5
	6.3	16.8
	8	21
168.3	5	16.61
	6.3	20.73
	8	26
	10	32
193.7	5	20.1
	6.3	25.2
	8	31.6
	10	39
219.1	12.5	48

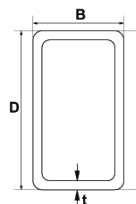
Outside Dia (D) mm	Thickness (t) mm	Mass Kg/M
193.7	5	23.3
	6.3	29.1
	8	36.6
	10	45.3
219.1	5	26.4
	6.3	33.1
	8	41.6
	10	51.6
	12.5	63.7
244.5	16	80.1
	6.3	37
	8	46.7
	10	57.8
	12.5	71.5
273	16	90.2
	6.3	41.4
	8	52.3
	10	64.9
	12.5	80.3
323.9	16	101
	6.3	49.3
	8	62.3
	10	77.4
	12.5	96
355.6	16	121
	8	68.6
	10	85.2
	12.5	106
	16	134
406.4	10	97.8
	12.5	121
	16	154
457	10	110
	12.5	137
	16	174
508	10	123
	12.5	153
	16	194

SQUARE HOLLOW SECTIONS



Size (D) mm	Thickness (t) mm	Mass Kg/M	Size (D) mm	Thickness (t) mm	Mass Kg/M	Size (D) mm	Thickness (t) mm	Mass Kg/M
20 x 20	2	1.12	80 x 80	3	7.22	160	5	24.2
	2.5	1.35		3.6	8.59	x	6	29.1
				4	9.22	160	8	37.9
25 x 25	2	1.43		5	11.7		10	46.7
	2.5	1.74		6.3	14.4	180	6.3	34.2
	3.2	2.15		8	17.48	x	8	43
30 x 30	2	1.72	90 x 90	3	8.1	180	10	53
	2.5	2.14		3.6	9.72		12.5	63.2
	3	2.51		4	10.5		16	81.4
40 x 40	2	2.3		5	13.3	200	6.3	38.2
	2.5	2.92		6.3	16.4	x	8	48
	3	3.45		8	20.4	200	10	59.3
	4	4.46	100	3	9.2		12.5	73
	5	5.4		4	12		16	91.5
50 x 50	2	2.88		5	14.8	250	6.3	48.19
	2.5	3.71		6	17.6	x	8	60.5
	3	4.39		8	22.9	250	10	75
	4	5.72		10	27.9		12.5	92.6
	5	6.97		12.5	34.87		16	117
	6.3	8.49	120	5	18	300	6.3	57.9
60 x 60	2.5	4.39		6	21.3	x	8	73.1
	3	5.34		8	27.9	300	10	90.7
	4	6.97		10	34.2		12.5	112
	5	8.54		12.5	41.6		16	142
	6.3	10.5	140	5	21.1	350	8	85.7
70 x 70	8	12.8		6	24.52	x	10	106
	3	6.28		8	32.6	350	12.5	132
	3.6	7.46		10	38.4		16	167
	4	7.97		12.5	49.5	400	10	122
	50	10.1	150	5	22.7	x	10	152
75 x 75	6.3	12.5		6.3	28.3	400	16	192
	8	15.3		8	35.4			
	3.2	7.2		8	35.4			
	5	10.1		10	43.6			
				12.5	53.4			
				16	66.4			

RECTANGULAR HOLLOW SECTIONS



Size (D x B) mm	Thickness (t) mm	Mass Kg/M	Size (D x B) mm	Thickness (t) mm	Mass Kg/M	Size (D x B) mm	Thickness (t) mm	Mass Kg/M
50 x 25	2	2.15	100 x 60	3	7.22	200	5	22.7
	2.5	2.72		3.6	8.59	x	6	27
	3	3.22		4	9.22	100	8	35.4
50 x 30	2.5	2.92		5	11.7		10	43.6
	3	3.45		6.3	14.4		12.5	53.4
	4	4.46		8	17.8		16	66.4
60 x 40	2.5	3.71	120 x 60	3	8.1	200	6	28.29
	3	4.39		3.6	9.72	x	8	36.5
	4	5.72		5	13.3	120	10	45.1
	50	6.97		6.3	16.4	200	6	31.1
	6.3	8.49		8	20.4	x	8	41.7
75 x 50	3.2	5.95	120 x 80	3	9.2	150	10	51.75
	5	9.14		3.6	11.9	250	6.3	38.2
80 x 40	3	5.34		5	14.8	x	8	48
	4	6.97		6	17.6	150	10	59.3
	5	8.54		8	22.9		12.5	73
	6.3	10.5		10	27.9		16	91.5
	8	12.8						
90 x 50	3	6.28	150	5	18.7	300	6.3	48.1
	3.6	7.46	x	6	22.3	x	8	60.5
	5	10.1	100	8	29.1	200	10	75
	6.3	12.5		10	35.7		12.5	92.6
	8	15.3		12.5	43.6		16	117
100 x 50	3	6.75	160 x 80	5	18	400	8	73.1
	4	8.86		6	21.3	x	10	90.7
	5	10.9		8	27.9	200	12.5	112
	6.3	13.4		10	34.2		16	142
	8	16.6		12.5	41.6	450	10	106
						x	12.5	132
						250	16	167

STEEL SHEETS AND PLATES

Standard sizes, thicknesses
and approximate weight per piece (nearest kilogram)



Thickness mm	2000 x 1000	2500 x 1250	3000 x 1500	4000 x 2000	5000 x 2500	6000 x 2000	6000 x 2700	8000 x 2000	8000 x 2500	10000 x 2500	12000 x 3000
0.4	6	10									
0.5	8	13									
0.6	10	15									
0.7	11	18									
0.8	13	20									
0.9	14	23									
1.0	16	25									
1.2	19	30									
1.6	26	40	58								
2.0	32	50	72	128							
2.5	40	63	90	160							
3.0	48	75	108	192	300	288		384	480	600	
4.0	64	100	144	256	400	384		512	640	800	
5.0	80	125	180	320	500	480		640	800	1000	
6.0	96	150	216	384	600	576		768	960	1200	
7.0	112	175	252	448	700	672		896	1120	1400	2016
8.0	128	200	288	512	800	768		1024	1280	1600	2304
9.0	144	225	324	576	900	864		1152	1440	1800	2592
10.0	160	250	360	640	1000	960		1280	1600	2000	2880
12.0	192	300	432	768	1200	1152	1555	1536	192	2400	3456
12.5	200	313	450	800	1250	1200	1620	1600	2000	2500	3600
15.0	240	375	540	960	1500	1440	1944	1920	2400	3000	4320
20.0	320	500	720	1280	2000	1920	2592	2560	3200	4000	5760
25.0	400	625	900	1600	2500	2400	3240	3200	4000	5000	
30.0	480	750	1080	1920	3000	2880	3888	3840	4800		
35.0	560	875	1260	2240	3500	3660	4536	4480	5600		
40.0	640	1000	1440	2560	4000	3840	5184	5120			
45.0	720	1125	1620	2880	4500	4320					
50.0	800	1250	1800	3200	5000	4800					
55.0	880	1375	1980	3520							
60.0	960	1500	2160	3840		PLEASE NOTE OTHER SIZES AND THICKNESSES ARE ALSO AVAILABLE AND WE WILL BE PLEASED TO QUOTE FOR YOUR EXACT REQUIREMENTS					
65.0	1040	1625	2340	4160							
70.0	1120	1750	2520	4480							
75.0	1200	1875	2700	4800							
80.0	1280	2000	2880	5120							
85.0	1360	2125	3060			WE CAN SUPPLY TO MOST INTERNATIONAL SPECIFICATIONS AND GRADES					
95.0	1520	2375	3420								
100.0	1600	2500	3600								
120.0	1920	3000	4320								
140.0	2240	3500	5040								
160.0	2560	4000									
180.0	2880	4500									
200.0	3220	5000									



FLOOR PLATES

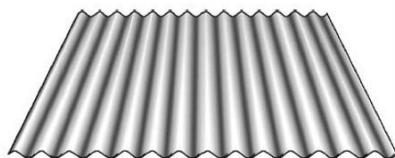
Weight in Kilograms per plate – Durbar pattern

Plate Size (mm)	Thickness On Plain (mm)	Weight Kg/M²	Weight Per plate Kg
2500 x 1250	3	26.19	82
2000 x 1000	4.5	37.97	76
2500 x 1250	4.5	37.97	119
3000 x 1500	4.5	37.97	171
4000 x 1750	4.5	37.97	266
4000 x 1830	4.5	37.97	278
2000 x 1000	6	49.74	99
2500 x 1250	6	49.74	155
3000 x 1500	6	49.74	224
4000 x 1750	6	49.74	348
4000 x 2000	6	49.74	398
2000 x 1000	8	65.44	131
2500 x 1250	8	65.44	205
3000 x 1500	8	65.44	295
4000 x 1750	8	65.44	458
4000 x 2000	8	65.44	524
2000 x 1000	10	81.14	162
2500 x 1250	10	81.14	254
3000 x 1500	10	81.14	365
4000 x 1750	10	81.14	568
2500 x 1250	12.5	100.77	315
3000 x 1500	12.5	100.77	454
4000 x 2000	12.5	100.77	807

Above table shows standard plate sizes, these can be cut to suit your requirements if the size you need is not shown.

Other patterns also available.

GALVANISED CORRUGATED SHEETS



Depth: 18mm from lowest to highest point

Corrugation width: 3 inches between each corrugation

Available in various widths:

24 inches (8/3 – 2ft Cover)

30 inches (10/3 – 2ft, 6 inch Cover)

36 inches (12/3 – 3ft Cover)

42 inches (14/3 – 1 Metre Cover)

Gauges:

0.35 – 0.425 (28g)

0.45 – 0.55 (26g)

0.60 – 0.68 (24g)

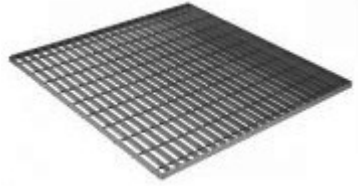
0.70 – 0.80 (22g)

0.85 – 0.95 (20g)

Available in any length running from 3ft up to 20ft (depending on width and gauge)

Standard Thickness	8/3 (743mm)		10/3 (908mm)		12/3 (1070mm)	
	Kg/M	M/Tonne	Kg/M	M/Tonne	Kg/M	M/Tonne
0.425	2.50	400	3.05	328	3.59	278
0.50	2.94	341	3.59	279	4.23	236
0.60	3.52	284	4.31	232	5.07	197
0.70	4.11	243	5.02	199	5.92	169
0.90	5.28	192	6.45	156	7.61	133

OPEN STEEL FLOORING



Construction

Open steel flooring is constructed of load bearing bars in varying thicknesses and depths with lateral restraint normally provided by 6mm square-twisted transverse bars, or 7mm for heavy specifications, forge-welded to the upper edges of the load-bearing bars. This is done at 2000kVa under 100 tonnes of force.

Types available are:

41/100, 41/50, 30/100 & 30/50.

With bearing bar sections as follows:

20x3, 20x5, 25x3, 25x5, 30x3, 30x5, 35x3,
35x5, 40x3, 40x5, 45x5, 50x5, 55x5 & 60x5.

Finishes

SELF COLOUR

This gives faster deliveries to the customers who fabricate their own flooring.

RED OXIDE

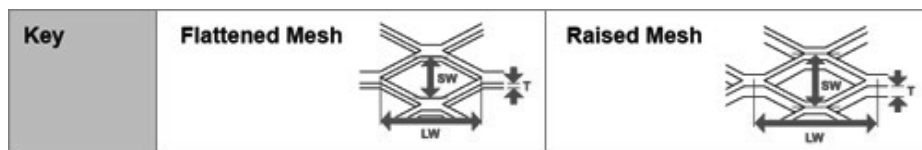
This is basically used as a primer coat when additional paint finishes are required.

GALVANISED

For corrosive and damp situations. Open steel flooring is usually galvanized to BS EN ISO 1461:2009 giving a minimum average coating of zinc of 85 microns for sections 6mm and above, and 70 microns for sections below 6mm

Other finishes are available on request.

EXPANDED METAL



RAISED GALVANISED STEEL MESH

Hot Dip galvanised to BS EN ISO 1461:2009

Mesh LW	Mesh SW	Strand Thickness	Sheet Size LW x SW	Material	Ref.
50.8	22.6	3	2440x1220	Galvanised Hot Rolled Mild Steel	50- 89HRG
76.2	33.9	3	2440x1220	Galvanised Hot Rolled Mild Steel	76- 92MRG

FLATTENED GALVANISED STEEL MESH

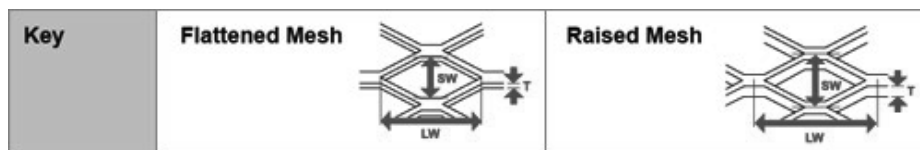
Hot dip galvanised to BS EN ISO 1461:2009 Low Carbon steel DD11 to

BS EN ISO 10111:2008

* Pre-Galvanised steel DX51D +Z275 to BS EN 10346:2009

Mesh LW	Mesh SW	Strand Thickness	Sheet Size LW x SW	Material	Ref.
42.9	14.2	2.7	2440x1220	Galvanised Hot Rolled Mild Steel	50- 73HFG
43.4	18	1.1	2440x1220	Galvanised Hot Rolled Mild Steel	50- 76MFG

EXPANDED METAL



RAISED STAINLESS STEEL MESH

Stainless steel Type 1.4301 to BE EN 1088-2:2005

Mesh LW	Mesh SW	Strand Thickness	Sheet Size LW x SW	Material	Ref.
3	1.8	0.2	500x10000	Stainless Steel	03-27SR
19.1	7.3	0.9	1250x2500	Stainless Steel	19-98SR

FLATTENED STAINLESS STEEL MESH

Stainless steel Type 1.4301 to BE EN 1088-2:2005

Mesh LW	Mesh SW	Strand Thickness	Sheet Size LW x SW	Material	Ref.
3.8	2	0.8	1250x1625	Stainless Steel	06-28SFNS

RAISED ALUMINIUM MESH

Aluminium 1050H14 to BS EN 485/515/573

Mesh LW	Mesh SW	Strand Thickness	Sheet Size LW x SW	Material	Ref.
3	1.8	0.3	610x10000	Aluminium	03-01AR
5.8	3.5	0.5	625x1250	Aluminium	06-01AR
10.2	5.6	0.9	1250x1250	Aluminium	10-51AR
50.8	22.6	3	2500x1250	Aluminium	50-89AHR

Please note that the preceding sizes are just a sample of our range of supply, if you require any specific measurements please ask.

REINFORCING BARS

Plain & Deformed

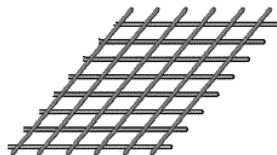


We supply Grade 500C high ductility hot rolled, ribbed steel bar, for use in the reinforcement of concrete. Our Grade B500C reinforcing bars meet all the requirements of BS 4449:2005 Grade B500C, are fully weldable, and are available in all BS 4449:2005 preferred sizes, from 8 to 50 mm.

All our B500C reinforcement is CARES approved, and is certified to the BES 6001 responsible sourcing standard through Eco-Reinforcement responsible sourcing scheme.

Nominal Diameter	Nominal Weight
mm	Kg/M
6	0.22
8	0.40
10	0.62
12	0.89
14	1.21
16	1.58
18	2.00
19	2.23
20	2.47
22	2.98
24	3.55
25	3.85
26	4.17
28	4.83
30	5.55
32	6.31
36	7.99
40	9.87
50	15.42

REINFORCEMENT FABRIC



Reinforcement fabric is manufactured by resistance welding of rods and bars at predetermined centres conforming to BS 4483.

Reinforcement fabrics are used mainly for the reinforcement of slabs (floors, roofs, roads etc.) and may have either SQUARE or OBLONG meshes. The sizes and other properties of these fabrics are set out in the table below.

In SQUARE mesh fabrics the wires are the same size in both directions but in LONGITUDINAL mesh fabrics the transverse wires are smaller than the main wires.

In the STRUCTURAL fabrics the transverse wires provide sufficient area to conform to the requirements of BS code of practice CP 114 as regards distribution steel in suspended slabs but this is not the case with long mesh fabrics.

Standard sheet dimensions are 4.8m long x 2.4m wide.

BS Reference	Mesh Size Nominal Pitch of Wires		Wire Sizes		Cross Sectional Area per Metre Width		Nominal Weight Per M²
	Main	Cross	Main	Cross	Main	Cross	
SQUARE							
A 393	200mm	200mm	10mm	10mm	393mm²	393mm²	6.16
A 252	200mm	200mm	8mm	8mm	252mm²	252mm²	3.95
A 193	200mm	200mm	7mm	7mm	193mm²	193mm²	3.02
A 142	200mm	200mm	6mm	6mm	142mm²	142mm²	2.22
STRUCTURAL							
B 1131	100mm	200mm	12mm	8mm	1131mm²	252mm²	10.9
B 785	100mm	200mm	10mm	8mm	785mm²	252mm²	8.14
B 503	100mm	200mm	8mm	8mm	503mm²	252mm²	5.93
B 385	100mm	200mm	7mm	7mm	385mm²	193mm²	4.53
B 283	100mm	200mm	6mm	7mm	283mm²	193mm²	3.73
LONG							
C 785	100mm	400mm	10mm	6mm	393mm²	71mm²	6.72
C 636	100mm	400mm	9mm	6mm	636mm²	71mm²	5.55
C 503	100mm	400mm	8mm	6mm	503mm²	71mm²	4.51
C 385	100mm	400mm	7mm	6mm	385mm²	71mm²	3.58
C 283	100mm	400mm	6mm	6mm	283mm²	71mm²	2.78
WRAPPING							
D 98	200mm	200mm	5mm	5mm	98mm²	98mm²	1.54
D 49	100mm	100mm	2.5mm	2.5mm	49mm²	49mm²	0.77

PIPES & FITTINGS

Standard Material Supply Range

Carbon and Low Alloy	High Yield	Chromium Molybdenum	Austenitic Stainless Steels	Ferritic-Austenitic Steels	Nickel Alloys	Copper Nickel
ASTM A106B/C + API 5LGr B	API 5LX 52-65	ASTM A335 P1,5,9,11,22	ASTM A312/358 TP304, H+L	ASTM A790 UNS 31803	ASTM B444 UNS NO6625	90-10 EEMUA 144
ASTM A333 Gr 6			ASTM A312/358 TP316, H+L	ASTM A790 UNS S32750+32760	ASTM B423 UNS NO8825	Sections 1+2
ASTM A333 Gr 3			ASTM A312/358 TP321, H	ASTM A928 UNS S31803	ASTM B407 UNS NO8800	
			ASTM A312/358 TP347, H	ASTM A928 UNS S32750+32760	ASTM B407 UNS NO8810/11 (HT)	
			ASTM A312/358 UNS S31254			

We supply an extensive range of pipe fittings, elbows, couplings, nipples, plugs, tees, flanges, jointing systems, Victaulic systems, valves, gaskets, special items such as strainers and flame arrestors, as well as other ancilliary items including bolting, hangers etc.

BS1387 PIPES

Dimensions and weight of steel tubes according the British Standard - BS 1387:1985 "Specification for screwed and socketed steel tubes and tubulars and for plain end steel tubes suitable for welding or for screwing to BS 21 pipe threads" can be found in the table below:

Nominal bore		Outside diameter		Thickness			Mass		
		Light	Medium/ Heavy	Light	Medium	Heavy	Light	Medium	Heavy
<i>in</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>mm</i>	<i>kg/m</i>	<i>kg/m</i>	<i>kg/m</i>
1/4	8	13.6	13.9	1.8	2.3	2.9	0.515	0.641	0.765
3/8	10	17.1	17.4	1.8	2.3	2.9	0.67	0.839	1.02
1/2	15	21.4	21.7	2	2.6	3.2	0.947	1.21	1.44
3/4	20	26.9	27.2	2.3	2.6	3.2	1.38	1.56	1.87
1	25	33.8	34.2	2.6	3.2	4	1.98	2.41	2.94
1 1/4	32	42.5	42.9	2.6	3.2	4	2.54	3.1	3.8
1 1/2	40	48.4	48.8	2.9	3.2	4	3.23	3.57	4.38
2	50	60.2	60.8	2.9	3.6	4.5	4.08	5.03	6.19
2 1/2	65	76	76.6	3.2	3.6	4.5	5.71	6.43	7.93
3	80	88.7	89.5	3.2	4	5	6.72	8.37	10.3
4	100	113.9	114.9	3.6	4.5	5.4	9.75	12.2	14.5
5	125		140.6		5	5.4		16.6	17.9
6	150		166.1		5	5.4		19.7	21.3

CARBON AND ALLOY STEEL GRADE COMPARISON

Comparison of steel grades by chemistry						
EN No.	EN name	SAE	DIN	BS 970	UNI	JIS
1.1141	C15D	1010	CK15	040A15	C15	S12C
1.0401	C18D	1018	C15	080M15	C16	S15
1.0453			C16.8	080A15	1C15	S15CK
				EN3B		S15C
1.0503			C45	060A47	C45	S45C
1.1191	C45	1045	CK45	080A46	1C45	S48C
1.1193			CF45	080M46	C46	
1.1194			CQ45		C43	
1.0726	35S20	1140/1146	35S20	212M40		
1.0727	45S20		45S20	En8M		
1.0715	11SMn37	1215	9SMn28	230M07	CF9SMn28	SUM 25
1.0736			9SMn36	En1A	CF9SMn36	SUM 22
1.0718	11SMnPb30	12L14	9SMnPb28	230M07 Leaded	CF9SMnPb29	SUM 22
1.0737	11SMnPb37		9SMnPb36	En1B Leaded	CF9SMnPb36	SUM 23
1.7218		4130	25CrMo4	708A30	25CrMo4 (KB)	SCM 420
			GS- 25CrMo4	CDS110	30CrMo4	SCM 430
1.7223			41CrMo4	708M40	41CrMo4	SCM 440
1.7225	42CrMo4	4140/4142	42CrMo4	708A42	38CrMo4 (KB)	SCM 440H
1.7227			42CrMoS4	709M40	G40 CrMo4	SNB 7
1.3563			43CrMo4	En19	42CrMo4	SCM 4M
1.6582	34CrNiMo6	4340	34CrNiMo6	817M40	35NiCrMo6 (KB)	SNCM 447
1.6562			40NiCrMo8- 4	En24	40NiCrMo7 (KB)	SNB24- 1-5
1.6543	20NiCrMo2- 2	8620	21NiCrMo22	805A20	20NiCrMo2	SNCM 200 (H)
1.6523			21NiCrMo2	805M20		

GENERAL CONVERSION FACTORS

LENGTH			
1 inch	=	25.4mm	1mm = 0.03437 inch
1 foot	=	304.0mm	1 metre = 3.2808 feet
1 yard	=	0.9144m	1 metre = 1.0936 yards
WEIGHT			
1 oz.	=	28.35 grams	1 gram = 0.035274 oz.
1 lb	=	0.4356 kg	1 kg = 2.204621 lbs
1 ton	=	1.01605 tonnes	1 tonne = 0.9482 ton
AREA			
1 inch ²	=	645.16mm ²	1mm ² = 0.00155 inch ²
1 foot ²	=	0.0929m ²	1m ² = 10.765 foot ²
WEIGHT / LENGTH			
1 lb/ft	=	1.4882 kg/m	1 kg/m = 0.6720 lb/ft
VOLUME			
1 inch ³	=	16.387 cm ³	1 cm ³ = 0.610 inch ³
1 foot ³	=	0.02832 m ³	1 dm ³ = 0.0353 foot ³
1 fl.oz.	=	28.41 ml	1 m ³ = 1.3080 yard ³
1 pint	=	0.5683 litre	1 litre = 1.76 pints
1 gallon	=	4.5461 litres	1 hectoliter = 21.997 gallons
VELOCITY			
1 ft/min	=	5.08 mm/sec	1mm/sec = 0.19685 ft/min
1 mph	=	1.609334 kmh	1 kmh = 0.621371 mph
STRESS			
1 lbf/in ²	=	0.006895 N/m ²	1 N/m ² = 145.038 lbf/in ²
1 tonf/in ²	=	15.444 N/m ²	1 N/m ² = 0.6350 tonf/in ²
DENSITY			
1 lb/ft ³	=	16.085 kg/m ³	1 kg/m ³ = 0.062428 lb/ft ³
1 lb/gallon	=	0.099766 g/cm ³	1 g/cm ³ = 10.0224 lb/gallon ³
PRESSURE			
1 in H ₂ O	=	1.868 mm Hg	1mm Hg = 0.5352 in H ₂ O
1 bar	=	0.9869 atm	1 atm = 1.013 bar
1 lb/ft ²	=	47.88 N/m ²	1 N/m ² = 0.02089 lb/ft ²

NOTES

**UK STEEL EXPORTS LTD.
Standard Conditions of Sale—Export**

In these Conditions, "the Company" means UK Steel Exports Ltd. or any division of that Company by which goods are sold.

1. (a) All contracts of sale will be subject to these conditions and all terms and conditions appearing in the Buyer's order which are inconsistent therewith shall have no effect. Any variation of the terms and conditions of the contract as contained in these conditions and the written quotation will become binding only if confirmed in writing by the Company and the Buyers.
(b) "A Quotation or Tender by the Seller does not constitute a firm offer and the Seller reserves the right to withdraw or amend the same at anytime prior to the Sellers acceptance of the Purchase Order".
2. The Company will use its best endeavours to deliver all the goods at the date and within the time specified in the Contract but the Company shall not be liable for any expense loss or damage whatsoever suffered by the Buyers as a result of the Company for whatsoever reason not delivering at the date or within the time so specified.
3. Should the manufacturer of any of the goods at any of the Company's producing Works or the delivery thereof, whether by the Company or a subsidiary company or an independent carrier be prevented or hindered directly or indirectly by fire, the elements, war, civil commotion, strikes or lock-outs, industrial dispute, shortage of raw materials, or fuel, notwithstanding that the Company has taken all reasonable steps to procure the same, shortage of labour, break-down or partial failure of plant or machinery, acts, orders or regulations of any Government, delay on the part of any independent sub-contractor or supplier, or any other cause whatsoever beyond the reasonable control of the Company or any of its subsidiary companies concerned with the manufacture or delivery of the goods, then the time for delivery of the goods shall be extended for a reasonable period having regard to the effect of the delaying cause on the manufacture or delivery of the goods. If the period of such extension exceeds three months the Company may at any time while such extension continues thereafter cancel any deliveries not made.
4. Where the goods are packed or protected as specified in the contract (or in the event of no such specification the goods are delivered without any or sufficient packing or protection) the Company shall not be liable for any deterioration (including rusting) of the goods during carriage, except in the case of such products as are customarily specially packed.
5. (a) Any Maritime Insurance required to be effected by the Company under the contract shall, unless otherwise agreed in writing, be ten per cent over the invoice price and shall cover the interest from the commencement of transit to the destination named in the Contract, as provided and contained in the Institute of London Underwriters ("the Institute") Cargo Clauses (F.P.A.), the Institute War Clauses, and Institute Strikes, Riots and Civil Commotion Clauses at the time of shipment.
(b) Except as varied by these Conditions or otherwise agreed in writing the commercial terms used in the contract such as F.O.B., C.I.F. and C.F.R., shall have the meanings assigned to them by the Incoterms 1990 Conditions.
6. If the Buyers should allege that the goods or any part thereof are not in accordance with the contract they shall within 7 days of receipt thereof give notice to the Company and its Agents and afford them the facilities to inspect the goods and investigate the complaint.
7. If the Company agree to the Buyers or their agents or representatives inspecting the goods at the production works before delivery, that inspection shall be at the Buyer's expense and be final and on its completion to the satisfaction of the inspector the Buyers shall be deemed to have accepted the goods and no claim under Clause 6 will be entertained. If the inspector does not indicate to the Company in writing within seven days from the completion of his inspection his opinion of the goods the Buyers shall be deemed to have accepted them.
8. The Company shall not be liable for any loss of profit, damage to plant, or for any expenditure incurred on goods supplied or any consequential or special loss or damage sustained by the Buyers by reason of any breach of the contract by the Company.
9. Any condition, warranty or statement as to the quality of their fitness for any purpose whether express or implied by statute, custom of the trade or otherwise is hereby excluded unless given expressly in writing by the Company. No statement or undertaking whether a condition, warranty or otherwise, is given by the Company that the goods do not comprise or include patented registered or protected designs inventions or equipment.
10. The goods are supplied to the published dimensional tolerances of the producing works or where there are no such published tolerances to British Standard Specification and Codes of Practice unless otherwise agreed in writing by the Company. Reasonable variations under or over the nominal quantity ordered shall be taken or allowed.

11. (a) Payment shall be made at the time and in the currency specified. The amount of the price to be paid is that specified on the face of the contract or calculated in accordance with the formula there specified. That amount shall not be subject to any discount or deduction except as agreed in writing by the Company.
The Company shall be entitled to charge interest on all overdue payments.
- (b) Quotations in a currency other than sterling are based on the exchange rate at the time of quoting and unless the quotation states otherwise it will be subject to revision up or down if any different rate of exchange is ruling on the date the order acknowledgement is despatched.
12. All specifications and other necessary information required to be supplied by the Buyers shall be subject to the approval in writing of the Company and must be received by the time stipulated by the Company and if not so received the Company shall be entitled either to extend the time for delivery of the goods for a reasonable period having regard to the effect of the delay on the manufacture or delivery of the goods or to cancel any deliveries not made.
13. Each part delivery or instalment of the goods shall be deemed to be sold under a separate contract and no default by the Company in respect of any part delivery or instalment shall entitle the Buyers to treat the contract as repudiated in regard to any balance or instalment remaining deliverable.
14. The Company shall be entitled without prejudice to its other rights and remedies either to terminate wholly or partly every supply contract between itself and the Buyers or to suspend any further deliveries under any or every supply contract if:-
 - (a) any debt is due and payable by the Buyers to the Company but is unpaid; or
 - (b) the Buyers have failed to provide any letter of credit, bill of exchange, or any other security required by the contract;
 - (c) the Buyers have rejected returned or failed to take delivery of any goods tendered by the Company otherwise than in accordance with the Buyer's contractual rights;
 - (d) the Buyers being a body corporate become insolvent, or pass a resolution or suffer an order of the Court to be made for their winding up, or have had a receiver appointed (or carry out or undergo any analogous act or proceeding under foreign law), being an individual or partnership become insolvent or suspend payment in whole or in part or propose or enter into any composition or arrangement with his or their creditors or have had a receiving order in bankruptcy made against him or them, or carry out or undergo any analogous act or proceeding under foreign law.

The Company shall be entitled to exercise its aforesaid right of termination or suspension at any time during which the event or default giving rise thereto has not ceased or been remedied.

15. The Buyers shall not be entitled to withhold payment of any amount payable under the contract to the Company because of any disputed claim of the Buyers nor shall the Buyers be entitled to set off against any amount payable under the contract to the Company any monies which are not presently payable by the Company or for which the Company disputes liability.
16. The Buyer shall indemnify the Company against any claim or liability in respect of any infringement of a patent or registered design resulting from compliance with the Buyer's instructions express or implied.
17. All drawings descriptive matter weights dimensions and shipping or other specifications submitted with this quotation and the descriptions and illustrations contained in the Company's catalogues, pamphlets and price lists are approximate and by way of identification only and are intended merely to present a general idea of the goods described therein and their use shall not under any circumstances constitute or be deemed to constitute sale by description. Notwithstanding that a sample has been exhibited and inspected by the Buyers such sample was so exhibited and inspected solely to enable the Buyer to judge of the quality of the bulk and not so as to and shall not constitute a sale by sample under the contract.
18. All drawings and specifications submitted to Buyer remain the Company's property and must not be copied, disclosed to any third party, or otherwise used without the Company's written permission.
19. The contract shall be interpreted in accordance with and shall be subject to English law. The Uniform law on the International Sale of Goods annexed to the Convention relating thereto done at the Hague on 1st July, 1964 shall not apply to the contract. The Buyers on entering into the contract submit to the jurisdiction of the English Courts.
20. The Buyers represent to the Company on enquiry, order and contract and warrant to the Company that all the goods will be consigned to and used in the country shown on the Company's order acknowledgement. The Buyers further warrant to the Company that none of the goods will be re-exported from such country without the prior written consent of the Company. The Buyers will indemnify the Company against all losses, liabilities, claims, costs and expenses in respect of any breach of this provision.

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