BSi STEEL

STEEL PRODUCT GUIDE

CATALOGUE DES PRODUITS

CATALOGUE DES MATERIAUX

ABOUT BSi Steel

The purpose of this handbook is to provide you with a list of products we can provide. This list is by no means exhaustive, please contact your nearest branch for any product not listed.

BSi Steel is a group of dynamic, experienced companies operating in the steel and associated industries. The BSi Steel Group will continue to expand and thrive in Africa, supported and driven by an empowered workforce that prides itself on exceeding customers expectations.

All stock Lengths shown are to be used as an indication only, they are neither comprehensive, nor guaranteed.

* These sections are available on request.

Whilst every effort has been made to ensure that the information given in this product guide is accurate, BSI Steel does not accept responsibility for any misinterpretation or inaccuracies of the data content.

L'objectif de ce catalogue est de présenter une liste de produits que nous commercialisons. Cette liste n'est nullement exhaustive. Nous vous demandons de contacter votre agence la plus proche pour tout produit non repertorié.

BSi Steel est un groupe doté d'une longue expérience opérant avec succès dans le secteur de l'acier et des industries qui y sont associées. Le groupe BSi Steel continue son expansion et à prospérer à travers l'Afrique, géré par une équipe jeune, dynamique et compétente qui est fière de dépasser les espérances des clients.

Toutes les longueurs de stock mentionnées sont à titre indicatif.

* Ces longueurs sont disponibles sur demande.

Tous les efforts ont été élaborés pour s'assurer que les informations fournies sont justes.
BSi Steel n'est aucunement responsable pour une mauvaise interprétation ou pour des informations erronées dans ce catalogue.

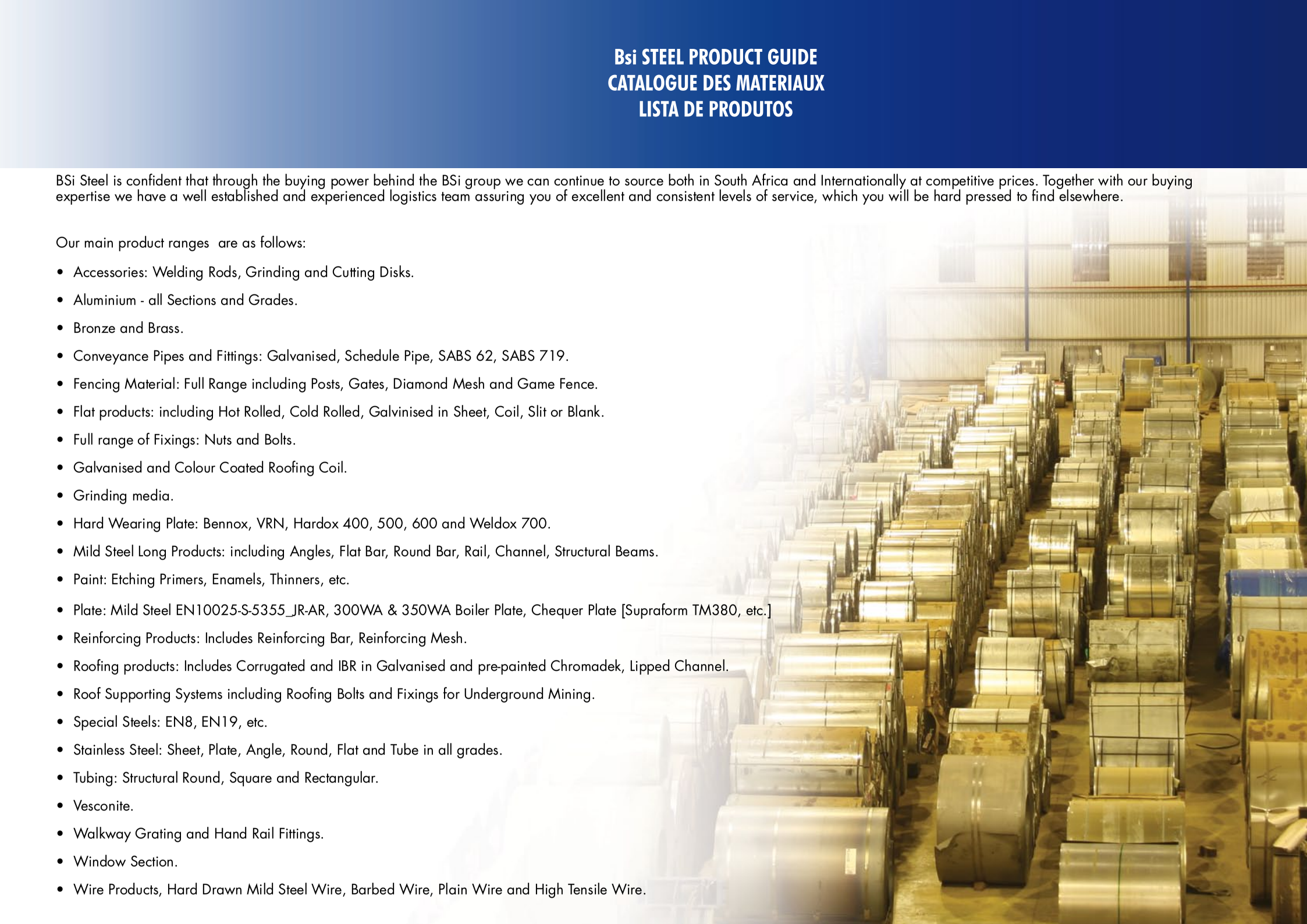
A funcão deste manual e de propor cionar uma lista de produtos disponiveis, esta lista não esta de algum modo completa, para qualquer produto aqui não mencionado por favor contactar a nossa agencia mais proxima. BSi Steel é um group de companhias dinamicas e experientes com relevo no sector de aco e industrias associadas. O Group BSi Steel continuará a expandir e prosperar em Africa, apoiado por um group de trabalhadores competentes que se orgulha em satisfazer as necessidades dos nossos clientes.

Bsi STEEL PRODUCT GUIDE
CATALOGUE DES MATERIAUX
LISTA DE PRODUTOS

BSi Steel is confident that through the buying power behind the BSi group we can continue to source both in South Africa and Internationally at competitive prices. Together with our buying expertise we have a well established and experienced logistics team assuring you of excellent and consistent levels of service, which you will be hard pressed to find elsewhere.

Our main product ranges are as follows:

- Accessories: Welding Rods, Grinding and Cutting Disks.
- Aluminium - all Sections and Grades.
- Bronze and Brass.
- Conveyance Pipes and Fittings: Galvanised, Schedule Pipe, SABS 62, SABS 719.
- Fencing Material: Full Range including Posts, Gates, Diamond Mesh and Game Fence.
- Flat products: including Hot Rolled, Cold Rolled, Galvinised in Sheet, Coil, Slit or Blank.
- Full range of Fixings: Nuts and Bolts.
- Galvanised and Colour Coated Roofing Coil.
- Grinding media.
- Hard Wearing Plate: Bennox, VRN, Hardox 400, 500, 600 and Weldox 700.
- Mild Steel Long Products: including Angles, Flat Bar, Round Bar, Rail, Channel, Structural Beams.
- Paint: Etching Primers, Enamels, Thinners, etc.
- Plate: Mild Steel EN10025-S-5355_JR-AR, 300WA & 350WA Boiler Plate, Chequer Plate [Supraform TM380, etc.]
- Reinforcing Products: Includes Reinforcing Bar, Reinforcing Mesh.
- Roofing products: Includes Corrugated and IBR in Galvanised and pre-painted Chromadek, Lipped Channel.
- Roof Supporting Systems including Roofing Bolts and Fixings for Underground Mining.
- Special Steels: EN8, EN19, etc.
- Stainless Steel: Sheet, Plate, Angle, Round, Flat and Tube in all grades.
- Tubing: Structural Round, Square and Rectangular.
- Vesconite.
- Walkway Grating and Hand Rail Fittings.
- Window Section.
- Wire Products, Hard Drawn Mild Steel Wire, Barbed Wire, Plain Wire and High Tensile Wire.

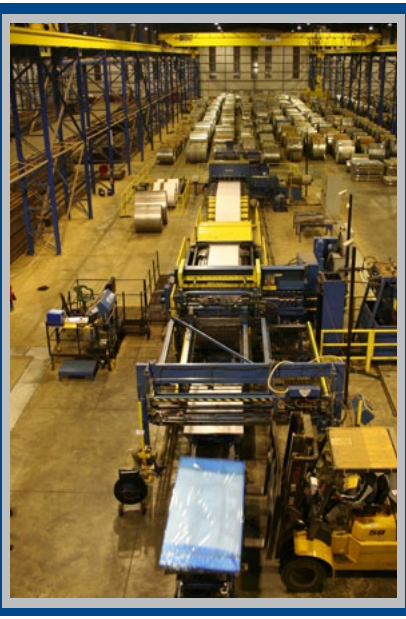


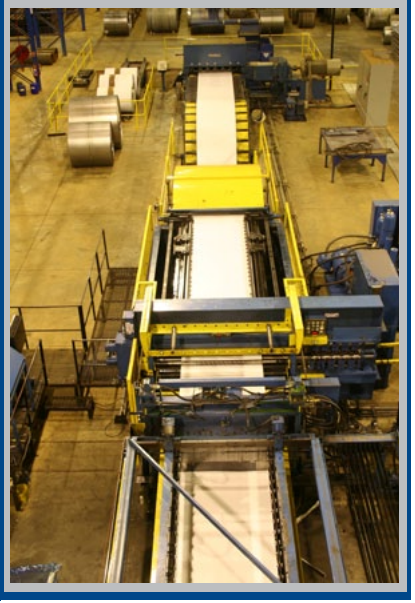
PROCESSING LINE:

BSi Steel has a modern & well equipped processing facility at its Klipriver site. Some of the services that we are able to cater for are:

- Cut to length
- Slitting
- Blanking
- Decoil – Recoil
- Guillotining
- Cutting

We are continually expanding on this range & will always be happy to facilitate your processing requirements should they fall outside of our own capabilities. Please contact your nearest sales office should you require more detailed information.





EQUAL ANGLES
CORNIERES EGALES
CANTONEIRA DE LADOS IGUAIS

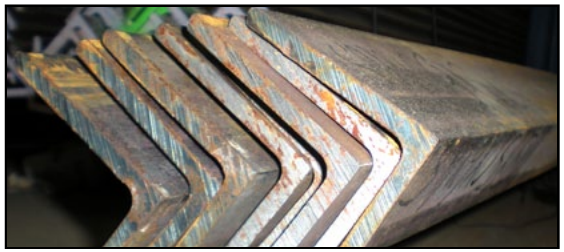
Size (mm)	Kg's / Metre												
	2,0	**2,5**	**3**	**4**	**5**	**6**	**10**	**12**	**13**	**15**	**16**	**18**	**20**
25x25	0.77	0.95	1.11		1.77								
30x30	0.95		1.36		2.18								
40x40	1.29	1.58	1.87	2.42	2.97	3.52							
45x45			2.13	2.74*	3.38								
50x50			2.37	3.06	3.77	4.47	5.82						
Below Items in Grade S355JR SANS 50025:2009 EN 10025/2004													
60x60				3.70	4.57	5.42	7.09	8.69					
70x70						6.38	8.36	10.27					
80x80						7.34	9.63	11.86	14.03				
90x90						8.30	10.90	13.45	15.93				
100x100							12.18	15.04	17.83	21.91*			
120 x 120							14.71	18.20	21.62	26.64			
150 x 150								22.98	27.35	33.77		40.06	
200 x 200											48.50	54.20	59.90

BSI STEEL

Notes:

Stock length 6 metres, also available 13 metres / Longueur en stock 6+13 mètres / En stock aussi dsponibles 6+13 m

UNEQUAL ANGLES
CORNIERE INEGALES
CANTONEIRAS DE LADOS DIFERENTES

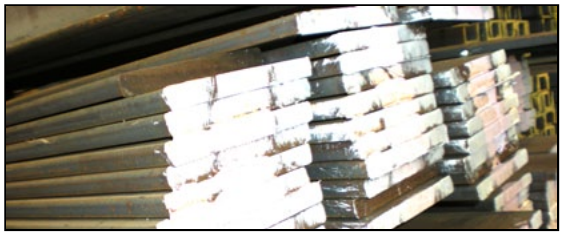


Size (mm)	Kg's per metre				
Below Items in Grade S355JR SANS 50025:2009 EN 10025/2004	6	8	10	12	15
65 x 50	5.16	6.75			
75 x 50	5.65	7.39			
80 x 60	6.37	8.34			
90 x 65	7.07	9.29	11.40		
100 x 65		9.94	12.30		
100 x 75	8.04	10.57	13.04	15.44*	
125 x 75		12.16	15.02	17.81	
150 x 75			16.98	20.17	24.83*
150 x 90			18.18	21.60	26.62

Notes:

Stock length 6 metres, also available13 m / Longueur en stock 6+13m / En stock aussi disponibles 6+13 m

FLAT BAR
FER PLAT
BARRA DE FERRO LISA



Size (mm)	Kg's / metre									
	5	6	8	10	12	16	20	25	30	40
20	0.79	0.94	1.26	1.57						
25	0.98	1.18	1.57	1.96	2.36					
30	1.18	1.41	1.88	2.36	2.83					
40	1.57	1.88	2.51	3.14	3.77	5.02	6.28	7.85		
50	1.96	2.36	3.14	3.93	4.71	6.28	7.85	9.81		
60		2.83	3.77	4.71	5.65	7.54	9.42		14.13*	
65		3.06	4.08	5.10	6.12					
70		3.30	4.40	5.50	6.59	8.79	11.00			
80		3.77	5.02	6.28	7.54	10.05	12.56	15.70	18.84	25.12
90		4.24	5.65	7.07	8.48		14.13*	17.70		
Below Items in Grade S355JR SANS 50025:2009 EN 10025/2004										
100		4.71	6.28	7.85	9.42	12.56	15.17	19.63	23.55	31.40
110		5.18	6.91*	8.64	10.36					
130			8.16	10.21	12.25	16.33	20.41	25.51		
150			9.42	11.78	14.13	18.84	23.55	29.44	35.33	
180				14.13	16.96	22.61	28.26	35.33*		
200				15.70	18.84	25.12	31.40	39.25		
250				19.60	23.60	31.40	39.25	49.06	58.88	
300				23.60	28.30					

GRADE 55C x 13 metre	
Sizes (mm)	**Kg's / metre**
100 x 12	9.42
100 x 16	12.56
100 x 20	15.70

Notes:

Stock length 6 metres / Longueur en stock 6 mètres.

GRADE 55C x 13 metre	
Sizes (mm)	**Kg's / metre**
130 x 12	12.25
130 x 16	16.33
130 x 20	20.41

BISTEEL

SQUARE BAR
FER CARRE
BARRA QUADRADA

Size (mm)	Mass - Kg/m
8 x 8	0.50*
10 x 10	0.79
12 x 12	1.13
16 x 16	2.01
20 x 20	3.14
25 x 25	4.91*
30 x 30	7.07*
35 x 35	9.62
40 x 40	12.60
50 x 50	19.60
55 x 55	23.80*
60 x 60	28.30
65 x 65*	33.20
70 x 70	38.50
Below Items in Grade S355JR SANS 50025:2009 EN 10025/2004	
75 x 75	44.20
100 x 100	78.50*
105 x 105	86.60*
150 x 150	177.00*

ROUNDS
FER ROND LISSE
VARÃO LISO

Size (mm)	Mass Kg/m
6	0.222
8	0.40
10	0.62
12	0.89
14	1.21*
16	1.58
20	2.47
22	2.98
24	3.55
25	3.85
30	5.55
32	6.31
35	7.55
36	7.99
38	8.90*
40	9.87
45	12.49
50	15.41

Note:
Larger sizes on request

REINFORCING BARS
FER A BETON
VARÃO NERVORADO

Size (mm)	Mass Kg/m
6	0.22*
8	0.40
10	0.62
12	0.89
16	1.58
20	2.47
25	3.85
32	6.31*
40	65.41*

All the above material is minimum 450MPA

Notes:

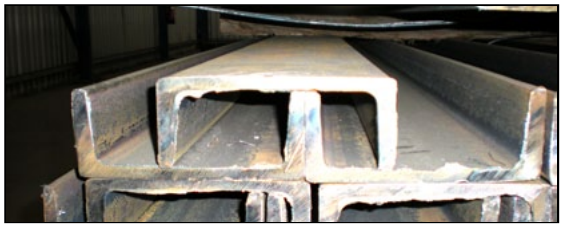
Stock length 6 metres, also available 12 + 13 metres / Longueur en stock 6/12/13m / En stock 6/12/13m, aussi disponibles

BSI STEEL

CHANNEL TAPER FLANGE - S355JR SANS 50025:2009 EN 10025/2004

FER U ou UPN

BARRA U



Size (mm)	Mass - Kg/m	Depth (D)	Width (W)	Web (mm)	Flange (mm)
76 x 38	6.70	76.2	38.1	5.1	6.8
100 x 50	10.73	100	50	6.0	8.5
120 x 55	13.55	120	55	7.0	9.0
127 x 64	14.3	127	63	6.4	9.2
140 x 60	16.22	140	60	7.0	10.0
152 x 76	17.91	152	76	6.4	9.0
160 x 65	19.12	160	65	7.5	10.5
178 x 54	14.55	178	54	5.8	8.3
180 x 70	22.27	180	70	8.0	11.0
200 x 75	25.30	200	75	8.5	11.5

BSI STEEL

Channels Parallel Flange	
Size (mm)	Mass - Kg/m
100 x 50	10.10
180 x 70	21.07
200 x 75	24.29
230 x 75	25.70
230 x 90	32.20

Channels Parallel Flange	
Size (mm)	Mass - Kg/m
260 x 75	27.60
260 x 90	34.80
300 x 90	41.40
300 x 100	45.40

Channels Supalite	
Size (mm)	Mass - Kg/m
100 x 50	8.88
76 x 38	5.7

Notes:

Stock length 6/13 metres
Longeur en stock 6/13 mètres
En stock 6/13 m

UNIVERSAL BEAMS - S355JR SANS 50025:2009 EN 10025/2004

FER I ou H.E.A.

FERRO UNIVERSAL I

Size (mm)	Mass Kg/m	Height (mm)	Width (mm)	Web (mm)	Flange (mm)
203 x 133	25.1	203.2	133.8	5.8	7.8
203 x 133	30.1	206.8	133.4	6.3	9.6
254 x 146	31.1	251.5	146.1	6.1	8.6
254 x 146	37.0	256.0	146.4	6.4	10.9
254 x 146	43.0	259.6	147.3	7.3	12.7
305 x 102	24.8	304.8	101.6	5.8	6.8
305 x 102	28.2	308.9	101.9	6.1	8.9
305 x 102	32.8	312.7	102.4	6.6	10.8
305 x 165	40.3	303.8	165.1	6.1	10.2
305 x 165	46.13	307.1	165.7	6.7	11.8
305 x 165	54.0	310.9	166.8	7.7	13.7
356 x 171	45.00	352.0	171.0	6.9	9.7
356 x 171	51.00	355.6	171.50	7.3	11.5
356 x 171	57.00	358.6	172.10	8.0	13.0
356 x 171	67.10	364.0	173.20	9.1	15.7

Size (mm)	Mass Kg/m	Height (mm)	Width (mm)	Web (mm)	Flange (mm)
406 x 140	39.0	397.3	141.8	6.3	8.6
406 x 140	46.0	402.3	142.4	6.9	11.2
406 x 178	54.1	402.6	177.6	7.6	10.9
406 x 178	60.1	406.4	177.8	7.8	12.8
406 x 178	67.1	409.4	178.8	8.8	14.3
406 x 178	74.2	412.8	197.7	9.7	16.0
457 x 191	67	453.6	189.8	8.5	12.7
457 x 191	74.3	457.2	190.5	9.1	14.5
457 x 191	82	460.2	191.3	9.9	16.0
457 x 191	89.3	463.4	192.0	10.6	17.7
457 x 191	98.3	467.4	192.8	11.4	19.6
533 x 210	82.2	528.3	208.7	9.6	13.2
533 x 210	92.1	533.1	209.3	10.2	15.6
533 x 210	101.0	536.7	210.1	10.9	17.4
533 x 210	109.0	539.5	210.7	11.6	18.8
533 x 210	122.0	544.6	211.9	12.8	21.3

Notes:

Available 9/11/13 m / Longeur en stock 9/11/13 mètres / Aussi disponibles 9/11/13 m

UNIVERSAL COLUMNS - S355JR SANS 50025:2009 EN 10025/2004

FER H ou H.E.B.

BARRA H

Size (mm)	Mass Kg/m	Height (mm)	Width (mm)	Web (mm)	Flange (mm)
152 x 152	23.0	152.4	152.4	6.1	6.8
152 x 152	30.0	157.5	152.9	6.6	9.4
152 x 152	37.0	161.8	154.4	8.1	11.5
203 x 203	46.1	203.2	203.2	7.3	11.0
203 x 203	52.0	206.2	203.9	8.0	12.5
203 x 203	60.0	209.6	205.2	9.3	14.2
203 x 203	71.0	215.9	206.2	10.3	17.3
203 x 203	86.1	222.3	208.8	13.0	20.5
254 x 254	73.1	254.0	254.0	8.6	14.2
254 x 254	89.9	260.4	255.9	10.5	17.3
254 x 254	107.1	266.7	258.3	13.0	20.5
254 x 254	132.0	276.4	261.0	15.6	25.3
254 x 254	167.1	289.1	264.5	19.2	31.7
305 x 305	96.9	307.8	304.8	9.9	15.4
305 x 305	117.9	314.5	306.8	11.9	18.7
305 x 305	136.9	320.5	308.7	13.8	21.7
305 x 305	158.1	327.2	310.6	15.7	25.0

BSL STEEL

Notes:

Available 9/11/13 m Longeur en stock 9/11/13 mètres / Aussi disponibles 9/11/13m

I.P.E S355JR SANS 50025:2009 EN 10025/2004

POUTRELLES I.P.E

SECÇÕES IPE

	Size (mm)	Mass Kg/m	Height (mm)	Width (mm)	Web (mm)	Flange (mm)
STD	100 x 55	8.1	100	55	4.1	5.7
	120 x 64	10.37	120	64	4.4	6.3
	140 x 73	12.89	140	73	4.7	6.9
	160 x 82	15.77	160	82	5.0	7.4
	180 x 91	18.80	180	91	5.3	8.0
	200 x 100	22.36	200	100	5.6	8.5
AA	100 x 55	6.72	97.6	55	3.6	4.5
	120 x 64	8.36	117	64	3.8	4.8
	140 x 73	10.05	136.6	73	3.8	5.2
	160 x 82	12.32	156.4	82	4.0	5.6
	180 x 91	14.94	176.4	91	4.3	6.2
	200 x 100	17.95	196.4	100	4.5	6.7

BS STEEL

Notes:

Available 9/11/13 m / Longeur en stock 9/11/13 mètres / Aussi disponibles 9/11/13m

MILD STEEL PLATE - COMMERCIAL QUALITY

TOLE ACIER - QUALITE COMMERCIALE

CHAPA DE QUALIDADE COMERCIAL

Size (mm)	Kg's per each											
	4.5	5.0	6.0	8.0	10	12	16	20	25	30	40	50
2000 x 1000	70.65	78.50	94.20	125.60	157.00	188.40	251.20	314.00	392.50			
2500 x 1200	105.98	117.75	141.30	188.39	235.51	282.60	376.80	471.00	588.75	706.50		
3000 x 1500	158.96	176.63	211.95	282.60	353.24	423.90	565.20	706.50	883.13			
4000 x 2000	282.60	314.00	376.77	502.40	628.00	753.60	1004.80	1256.00	1570.00			
8000 x 2000	565.20	628.00	753.60	1004.80	1256.00	1507.20	2009.60	2512.00	3140.00			
10000 x 2000	706.5		1942.00	1256.00	1570.00	1884.00						
10000 x 2400		942.00	1130.40	1507.20	1884.00	2260.80	3014.40	3768.00	4710.00*	5652.00	7536.00	9420.00

BSI STEEL

Notes:

Cut to length available in widths 1200, 1500, 1800 and 2000mm and up to 16mm thick.
Couper à la longueur disponible sur une largeur de 1200,1500, 1800 et de 2000mm ; épaisseur jusqu'à 16mm.

Cut to size available on request.
Coupe sur mesure disponible à la demande.

PLATES EN10025-2-S355JR+AR

TOLE ACIER

CHAPA DE QUALIDADE

Size (mm)	Kg's per each															
	4.5	5.0	6.0	8.0	10	12	16	20	25	30	32	35	38	40	45	50
2000 x 1000	70.65	78.50	94.20	125.60	157.00	188.40	251.20	314.00	392.50	471.00	502.40	549.60	596.60	628.00	706.50	785.00
2500 x 1200	105.98	117.75	141.30	188.40	235.50	282.60	376.80	471.00	588.75	706.50	753.60	824.25	894.90	942.00	1059.75	1177.50
3000 x 1500	158.96	176.63	211.95	282.60	353.25	423.90	565.20	706.50	883.13	1059.75	1130.40*	1236.38*	1342.35*	1413.00	1589.63	1766.25
4000 x 2000	282.60	314.00	376.80*	502.40	628.00	753.60	1004.80	1256.00	1570.00	1884.00	2009.60	2198.00	2386.40	2512.00	2826.00	3140.00
8000 x 2000	565.20	628.00	753.60*	1004.80	1256.00	1507.20	2009.60	2512.00	3140.00							
10000 x 2000	706.5		942.00	1246.00	1256.00	1570.00	1884.00	2512.00								
10000 x 2400		942.00	1130.40	1507.20	1884.00	2260.80	3014.40	3768.00	4710.00	5652.00	6028.80	6594.00	7159.20*	7536.00*	8478.00	
13000 x 2400		1224.60	1469.52	1959.36	2449.20	2939.04	3918.72	4898.40	6123.00	7347.60	7837.44*					
12000 x 3000			1695.60	2260.80	2826.00	3391.20	4521.60	5652.00								

Size (mm)	Kg's per each															
Below items grade in 300WA	55	60	65	70	75	80	85	90	100	110	115	120	125	130	140	150
2000 x 1000	863.50	942.00	1020.50	1099.00	1177.50	1256.00	1334.50	1413.00	1570.00	1727.00						
2500 x 1200	1295.25	1413.00	1530.75	1648.50*	1766.25	1884.00	2001.75*	2119.50	2355.00*	2590.50*	2708.25*	2826.00*	2943.75*	3061.50*	3297.00*	3532.50*
3000 x 1500	1942.88*	2119.50*														
4000 x 2000	3450.00*	3768.00	4082.00	4396.00	4710.0	5024.00	5338.00	5652.00*	6280.00	6908.00						

Notes:

Cut to length available in widths of 1200, 1500, 2000mm and up to 16mm thick.
Couper à la longueur disponible sur une largeur de 1200, 1500 et de 2000mm ; épaisseur jusqu'à 16mm.

Cut to size available on request.
Coupe sur mesure disponible à la demande.

BOILER PLATES
TOLES A CHAUDIERE
CHAPA DURA

HARD WEARING PLATES
TOLES D'USURE
CHAPA DURA

CORTEN PLATES
TOLES ANTI CORROSION
CHAPA

LLOYDS PLATES
TOLES MARITIME
CHAPA MARITIMA

Size (mm)	Kg's per each									
Boiler Plates BS 1501/151/430A	5	6	8	10	12	16	20	25	30	32
10000 x 2400	942.00	1130.40	1507.20	1884.00	2260.80	3014.40	3768.00	4710.00	5652.00	6028.80
13000 x 2400	1224.60	1469.52	1959.36	2449.20	2939.20	3918.72	4898.40*			
12000 x 3000		1695.60	2260.80	2826.00	3391.04	4521.60	5652.00			

Size (mm)	Kg's per each													
Hard Wearing Plate Bennox ss10/200	3	5	6	8	10	12	16	20	25	32	35	40	45	50
2500 x 1200	70.65	117.75	141.30	188.40	235.50	282.60	376.80	471.00	588.75	753.60	824.25*	952.00	1059.75*	1177.50*
4000 x 2000		314.00*	376.80	502.40	628.00	753.60	1004.80	1256.00	1570.00	2009.60		2512.00-		3140.008

Size (mm)	Kg's per each							
Corten Plates	3	5	6	8	10	12	16	20
2500 x 1200	70.65*	117.75	141.3	188.4	235.5*	282.6*	376.8	471
4000 x 2000		314.00	376.8	502.4	628.0	753.6	1004.8*	1256

Size (mm)	Kg's per each						
Lloyds Plates Grade A	6	8	10	12	16	20	25
10000 x 2400	1130.40	1507.20	1884.00	2260.80	3014.40*	3768.00*	4710.00*

Notes:

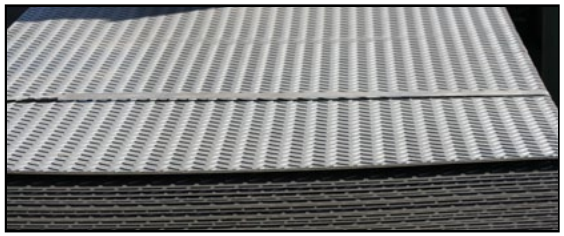
Other sizes available on request. Thicker Boiler plate available on request. BS 1501/151 GR430A and 161 normalized will be replaced progressively by EN 10028-2 P265 GH+N

Autres dimensions disponible sur demande. Une tôle de chaudière plus épaisse disponible sur demande. BS 1501/151 GR430A et 161 normalisés sera remplacé progressivement par EN 10028-2 demande disponible sur de dimensions de P265 GH+N/Autres.

PLATE - CHEQUER PLATE - VASTRAP COMMERCIAL QUALITY

TOLES STRIEES

CHAPA XADREZ (OLIVEIRA)



Size (mm)	Mass
2500 x 1200 x 3.0 / 4.6	78.00
2500 x 1200 x 4.5 / 6.1	113.34
4000 x 1200 x 4.5 / 6.1	181.34
8000 x 1200 x 4.5 / 6.1	362.69
2500 x 1200 x 6.0 / 7.6	148.65
4000 x 1200 x 6.0 / 7.6	237.84
8000 x 1200 x 6.0 / 7.6	475.68
2500 x 1200 x 8.0 / 9.6	195.75
4000 x 1200 x 8.0 / 9.6	313.20
8000 x 1200 x 8.0 / 9.6	626.40

Notes:

Cut to length available on request / Couper sur mesure à la demande.

HOT ROLLED SHEETS - COMMERCIAL QUALITY

TOLES NOIRES HR – QUALITE COMMERCIALE

CHAPA FINA

Size (mm)	Kg's / Sheet					
	1.6	2.0	2.5	3.0	3.5	4.0
1850 x 925	22.01	27.51	34.39	41.27		
1850 x 1225	29.15	36.44*	45.55*	54.66*		
2450 x 925	29.15*	36.44*	45.55*	54.66*		
2450 x 1225	38.60	48.25	60.32	72.38	84.44	96.51
2450 x 1500			73.86	88.63		
2450 x 1800				106.36*		
3000 x 1500		72.35	90.44	108.53	126.61	144.70
3000 x 1800				130.23*		
3050 x 1225	48.06	60.07	75.09	90.11		
3650 x 1225	57.51	71.89*	89.86	107.83		
3650 x 1500			110.03*	132.04*		

Pickled and Oiled HR Sheets	2.0	2.5	2.8	3.0	3.5	4.0
2450 x 1225	48.25	60.32	67.56	72.38	84.44	96.51

Notes:

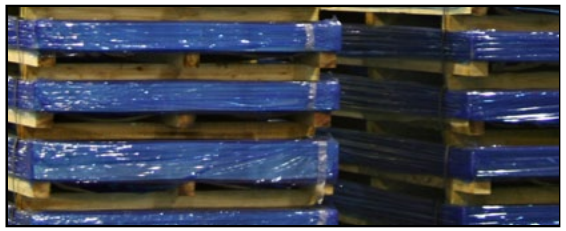
We offer a cut to length facility on all thicknesses and widths / Nous pouvons couper sur mesure toute longueur
Slitting and blanking facilities available / largeur et pour toutes épaisseurs.

BS STEEL

COMMERCIAL QUALITY - COLD ROLLED SHEETS

TOLES NOIRES CR – QUALITE COMMERCIALE

CHAPA FINA



Size (mm)	Kg's/Each							
	0.5	0.6	0.7	0.8	1.0	1.2	1.6	2.0
1850 x 925	6.88	8.25	9.63	11.01	13.76	16.51	22.01	27.51
2450 x 925	9.11*	10.93*		14.57*	18.22*	21.86*	29.15*	36.44*
1850 x 1225	9.11	10.93		14.57*	18.22*	21.86*	29.15*	36.44*
2450 x 1225	12.06	14.48	16.89	19.30	24.13	28.95	38.60	48.25
3050 x 1225		18.02*		24.03*	30.04*	36.04*	48.06*	60.07*
3650 x 1225		21.57*		28.76*	35.94*	43.13*	57.51*	71.89*

Notes:

We offer a cut to length facility on all thicknesses and widths / Nous pouvons couper sur mesure toute longueur.
Slitting and blanking facilities available / largeur et pour toutes épaisseurs.

BSI STEEL

GALVANISED SHEETS ISQ230/Z275

TOLES GALVANISEES

CHAPA GALVANIZADA

Size (mm)	Kg's/Each								
Commercial Quality	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	3.0
1850 x 925	6.88	8.25	11.01	13.76	16.51	22.01	27.51		
2450 x 925	9.11	10.93	14.57	18.22	21.86	29.15	36.44		
1850 x 1225	9.11	10.93	14.57	18.22	21.86	29.15	36.44		
2450 x 1225	12.06	14.48	19.30	24.13	28.95	38.60	48.25	60.32	72.38

BS STEEL

Size (mm)	Kg's/Each									
Lock Forming Quality	0.5	0.6	0.8	1.0	1.2	1.6	2.0	2.5	2.8	3.0
2450 x 1225		14.48	19.30	24.13	28.95					

Notes:

We offer a cut to length facility on all thicknesses and widths / Nous pouvons couper sur mesure toute longueur
Slitting and blanking facilities available / largeur et pour toutes épaisseurs.

HOLLOW SECTION - HOT ROLLED ROUND TUBING

TUYAUX NOIR

TUBO OCO (FURADO)

Size (mm)	Kg's/Metre's						
	1.6	2.0	2.5	3.0	3.5	4.0	4.5
15.8	0.560						
19.1	0.690	0.843					
21.4	0.781	0.957	1.165	1.361			
25.4	0.939	1.154	1.412	1.657			
26.9	0.998	1.228	1.504	1.774			
31.8	1.192	1.470	1.806	2.130			
34.1	1.282	1.583	1.948	2.301		2.969	
38.1	1.440	1.781	2.195	2.597		3.364	3.729
42.8	1.625	2.012	2.485	2.945		3.827	
48.4	1.847	2.289	2.830	3.359	3.875	4.380	4.870
50.8	1.941	2.407	2.978	3.536			
57.1	2.190	2.718	3.366	4.003		5.238	5.837
60.3	2.317	2.876	3.564	4.239	4.903	5.554	6.193
63.5	2.442	3.033	3.761	4.476	5.179	5.869	6.548
76.2	2.944	3.660	4.544	5.416	6.275	7.122	7.957
88.9		4.286	5.327	6.355	7.371	8.375	9.366
95.0		4.611	5.733	6.842			
101.6		4.912	6.110	7.294	8.469	9.619	10.775
114.2		5.534	6.893	8.227	9.555	10.882	12.187
127.0		6.165	7.669	9.174	10.659	12.133	13.596
139.7				10.114	11.756	13.386	15.004
152.4				11.053	12.852	14.636	16.412
165.1				11.992	13.949	15.891	17.822
177.8				12.933		17.145	

Notes:

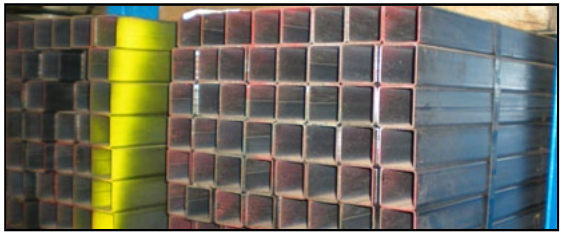
Larger diameters and thicker walled tubing available on request /
Diamètre et épaisseurs sur mesure disponibles sur demande

BST STEEL

HOLLOW SECTION - HOT ROLLED SQUARE

TUBE CARRE

TUBO QUADRADO OCO (FURADO)



Size (mm)	Kg's/Metre					
	1.6	**2.0**	**2.5**	**3.0**	**4.0**	**4.5**
12.7 x 12.7	0.563					
15.9 x 15.9	0.720					
19 x 19	0.891	1.094				
25 x 25	1.192	1.470	1.806	2.132		
32 x 32	1.505	1.859	2.293			
38 x 38	1.847	2.289	2.830	3.359		
40 x 40	1.941	2.407	2.978	5.536	4.663	
50 x 50	2.442	3.033	3.761	4.476	5.870	6.540
60 x 60	2.944	3.660	4.544	5.416	7.122	
75 x 75	3.704	4.611	5.733	6.842	8.978	10.045
100 x 100		6.166	7.677	9.175	12.135	13.596

Notes:

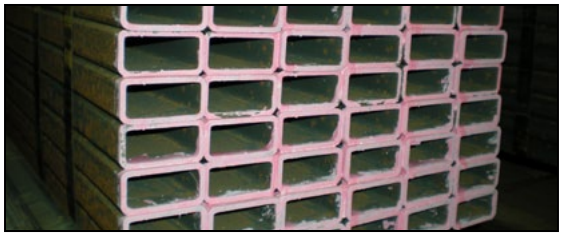
Larger diameters and thicknesses available on request / Diamètre et épaisseurs sur mesure disponibles sur demande

BLS STEEL

HOLLOW SECTION - HOT ROLLED RECTANGULAR

TUBE RECTANGULAIRE

TUBO RETANGULAR OCO (FURADO)



Size (mm)	Kg's/Metre					
	1.6	2.0	2.5	3.0	4.0	4.5
25.4 x 12.7	0.920					
31.8 x 19.1	1.192	1.468				
38.1 x 19.1	1.440	1.691				
38.1 x 25.4	1.515	1.874				
40 x 20	1.440	1.781				
50 x 25	1.847	2.289	2.830	3.309		
50 x 38	2.190	2.718	3.366	4.003		
60 x 30	2.190	2.718	3.366	4.003		
60 x 40	2.442	3.033	3.761	4.476	5.869	
75 x 25	2.442	3.033	3.761			
75 x 50	3.094	3.848	4.544	5.416		
76.2 x 38.1	2.817	3.501	4.346	5.180		
80 x 40	2.944	3.660	4.544	5.416		
100 x 50	3.704	4.611	5.733	6.842	8.978	
127 x 76				9.175		

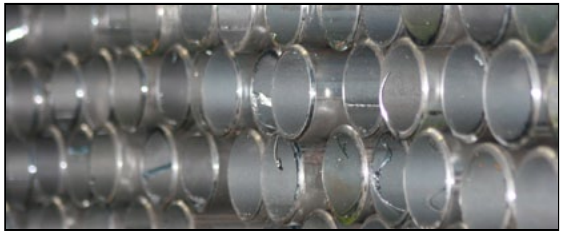
Notes:

Larger sizes and thicknesses available on request / Diamètre et épaisseurs sur mesure disponibles sur demande.

HOLLOW SECTION - HOT ROLLED GALVANISED ROUND TUBING (GATE AND FENCE)

TUYAUX GALVANISE – TUYAUX ROND POUR CLOTURE

TUBO GALVANIZADO OCO (FURADO)



Size (mm)	Mass - Kg/m
25.4 x 2.0	1.238
26.9 x 2.0	1.322
31.8 x 2.0	1.574
34.1 x 2.0	1.700
38.1 x 2.0	2.162
42.8 x 2.0	2.02
48.4 x 2.0	2.456
50.8 x 2.0	2.540
60.3 x 2.0	3.087
76.2 x 2.0	3.926
101.6 x 2.0	5.270

STEEL

Notes:

Larger sizes and thicknesses available on request / Diamètre et épaisseurs sur mesure disponibles sur demande.

HOLLOW SECTION - BORE HOLE CASING
TUYAUX POUR SONDAGE
TUBO OCO-FURADO PARA ÁGUA

Size (mm)	Mass Kg/m
140 x 3	10.11
152 x 3	11.05
165 x 3	11.99
177 x 3	12.87
177 x 4.5	19.09
219 x 3.5	18.59
219 x 4.5	23.80

Notes:

Larger sizes and thicknesses available on request.
Diamètre et épaisseurs sur mesure disponibles sur demande

SEAMLESS PIPES ASTM A106
TUYAUTERIE TRANSPARENTE ASTM A106
TUBULAÇÃO SEM EMENDA ASTM A106

Nominal bore (mm)	Outside diameter (mm)	Wall thickness (mm)	Internal diameter (mm)	Mass (approx) kg/m	Schedule number
6	10,3	1,73	6,84	0,36	(STD) 40
		2,41	5,48	0,46	(XS) 80
8	13,7	2,24	9,22	0,63	(STD) 40
		3,02	7,66	0,80	(XS) 80
10	17,1	2,31	12,48	0.85	(STD) 40
		3,20	10,70	1,10	(XS) 80
15	21,3	2,77	15,76	1,27	(STD) 40
		3,73	13,84	1,62	(XS) 80
		4,78	11,74	1,94	160
		7,47	6,36	2,56	(XXS) ---

Nominal bore (mm)	Outside diameter (mm)	Wall thickness (mm)	Internal diameter (mm)	Mass (approx) kg/m	Schedule number
20	26,7	2,87	20,96	1,68	(STD) 40
		3,91	18,88	2,19	(XS) 80
		5,56	15,58	2,89	160
		7,82	11,06	3,64	(XXS) ---
25	33,4	3,38	26,64	2,50	(STD) 40
		4,55	24,30	3,23	(XS) 80
		6,35	20,70	4,23	160
		9,09	15,22	5,45	(XXS) ---

STEFI

SEAMLESS PIPING ASTM A106 (cont)

TUYAUTERIE TRANSPARENTE ASTM A106

TUBULAÇÃO SEM EMENDA ASTM A106

Nominal bore (mm)	Outside diameter (mm)	Wall thickness (mm)	Internal diameter (mm)	Mass (approx) kg/m	Schedule number
32	42,2	3,56	35,08	3,38	(STD) 40
		4,85	32,50	4,46	(XS) 80
		6,35	29,50	5,61	160
		9,70	22,80	7,74	(XXS) ---
40	48,3	3,68	40,94	4,05	(STD) 40
		5,08	38,14	5,40	(XS) 80
		7,14	34,02	7,22	160
		10,16	27,98	9,55	(XXS) ---
50	60,3	3,91	52,48	5,43	(STD) 40
		5,54	49,22	7,49	(XS) 80
		8,74	42,82	11,09	160
		11,07	38,16	13,45	(XXS) ---
65	73,0	5,16	62,68	8,62	(STD) 40
		7,01	58,98	11,40	(XS) 80
		9,52	53,96	14,90	160
		14,02	44,96	20,38	(XXS) ---
80	88,9	5,49	77,92	11,29	(STD) 40
		7,62	73,66	15,25	(XS) 80
		11,13	66,64	21,33	160
		15,24	58,42	27,66	(XXS) ---
90	101,6	5,74	90,12	13,57	(STD) 40
		8,08	85,44	18,62	(XS) 80
100	114,3	6,02	102,26	16,07	(STD) 40
		8,56	97,18	22,31	(XS) 80
		11,13	92,04	28,25	120
		13,49	87,32	33,49	160
		17,12	80,06	40,98	(XXS) ---

Nominal bore (mm)	Outside diameter (mm)	Wall thickness (mm)	Internal diameter (mm)	Mass (approx) kg/m	Schedule number
125	141,3	6,55	128,20	21,78	(STD) 40
		9,52	122,26	30,92	(XS) 80
		12,70	115,90	40,24	120
		15,88	109,54	49,05	160
		19,05	103,20	57,38	(XXS) ---
150	168,3	7,11	154,08	28,26	(STD) 40
		10,97	146,36	42,56	(XS) 80
		14,27	139,76	54,17	120
		18,24	131,82	67,49	160
		21,95	124,40	79,10	(XXS) ---
150	168,3	7,11	154,08	28,26	(STD) 40
		10,97	146,36	42,56	(XS) 80
		14,27	139,76	54,17	120
		18,24	131,82	67,49	160
		21,95	124,40	79,10	(XXS) ---
200	219,1	6,35	206,40	33,31	(SCH) 20
		7,04	205,02	33,79	30
		8,18	202,74	42,53	(STD) 40
		10,31	198,48	53,10	60
		12,70	193,70	64,63	(XS) 80
		15,06	188,98	75,82	100
		18,24	182,62	90,36	120
		20,62	177,86	100,86	140
		22,22	174,66	107,78	(XXS) -----
		23,01	173,08	111,16	160

BS STEEL

SEAMLESS PIPING ASTM A106 (cont)

TUYAUTERIE TRANSPARENTE ASTM A106

TUBULAÇÃO SEM EMENDA ASTM A106

Nominal bore (mm)	Outside diameter (mm)	Wall thickness (mm)	Internal diameter (mm)	Mass (approx) kg/m	Schedule number
250	273,0	6,35	260,30	41,77	20
		7,80	257,40	51,00	30
		9,27	254,46	60,29	(STD) 40
		12,70	247,60	81,54	XS 60
		15,06	242,88	95,90	80
		18,24	236,52	114,64	100
		21,41	230,18	132,88	120
		25,40	222,20	154,96	(XXS) 140
		28,58	215,84	172,09	160
300	323,8	6,35	311,10	49,72	20
		8,38	307,04	65,20	30
		9,52	304,76	73,82	STD
		10,31	303,18	79,72	40
		12,70	298,40	97,44	XS ---
		14,27	295,26	108,86	60
300	323,8	17,35	289,10	131,89	80
		21,41	280,98	159,72	100
		25,40	273,00	186,75	XXS 120
		25,58	266,64	207,85	140
		33,32	257,16	238,52	160
350	355,6	6,35	342,90	54,68	10
		7,92	339,76	67,94	20
		9,52	336,56	81,28	STD 30
		11,13	333,34	94,40	40
		12,70	330,20	107,38	XS ----
		15,06	325,48	126,58	60
		19,05	317,50	157,95	80

Nominal bore (mm)	Outside diameter (mm)	Wall thickness (mm)	Internal diameter (mm)	Mass (approx) kg/m	Schedule number
350	355,6	23,80	308,00	194,82	100
		27,76	300,08	224,42	120
		31,75	292,10	253,14	140
		35,71	284,18	281,38	160
400	406,4	6,35	392,70	62,63	10
		7,92	390,56	77,86	20
		9,52	387,36	93,21	STD 30
		12,70	381,00	123,29	XS 40
		16,66	373,08	160,05	60
		21,41	363,58	203,32	80
		26,19	354,02	245,32	100
		30,94	344,52	286,44	120
		36,53	333,34	332,62	140
		40,46	325,48	364,85	160
450	457,2	6,35	444,50	70,59	10
		7,92	441,36	87,79	20
		9,52	438,16	105,14	STD -
		11,13	434,94	122,36	30
		12,70	431,80	139,19	XS -
		14,27	428,66	155,91	40
		19,05	419,10	205,62	60
		23,80	409,60	254,38	80
		29,36	398,48	309,44	100
		34,92	387,36	363,19	120
		39,67	377,86	408,01	140
		45,24	366,72	459,18	160

STEEL

SCREWED AND SOCKETED STEEL PIPE SABS 62

TUYAUX ROND FILLETE AVEC MANCHON

CANO DE FERRO DE BOCA PARAFUSADO

		Mimimum Wall Thickness			Uncoated Tubes Screwed and Socketed		
Nominal Bore (mm)	**Approx. Outside Diameter (mm)**	**Light (mm)**	**Medium (mm)**	**Heavy (mm)**	**Light kg/metre**	**Medium kg/metre**	**Heavy kg/metre**
6	10.2	1.65	1.75	2.32	0.364	0.401	0.496
8	13.5	1.65	2.05	2.54	0.521	0.596	0.765
10	17.2	1.65	2.05	2.54	0.680	0.888	1.055
15	21.3	1.84	2.32	2.84	1.000	1.214	1.418
20	26.9	2.16	2.32	2.84	1.459	1.572	1.847
25	33.7	2.44	2.84	3.54	2.255	2.398	2.955
32	42.4	2.44	2.84	3.54	2.890	3.076	3.813
40	48.3	2.67	2.84	3.54	3.294	3.509	4.359
50	60.3	2.67	3.19	3.94	4.446	5.125	6.069
65	76.1	3.00	3.19	3.94	6.050	6.574	7.804
80	88.9	3.00	3.54	4.24	7.149	8.389	9.839
100	114.3	3.36	3.94	4.73	10.127	12.010	14.172
125	139.7		4.24	4.73		15.868	17.563
150	135.1		4.24	4.73		18.931	20.964

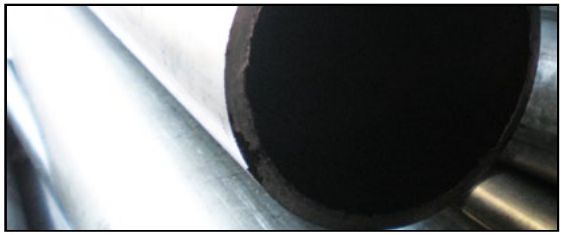
Notes:

Also available in Galvanised / Aussi disponible en galvanisé .

LARGE BORE PIPE SABS 719 LONGITUDINAL WELDED PIPE

TUYAUX ROND DE GRANDE DIMENSION

TUBO GRANDE PARA AGUA



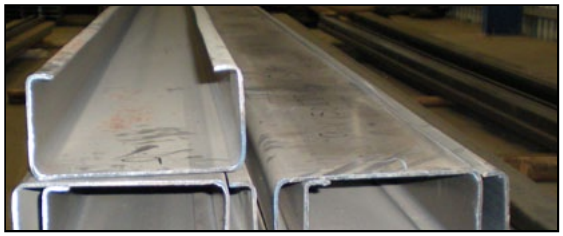
Nominal Bore (mm)	Outside Diameter (mm)	Wall Thickness (mm)	Internal Diameter (mm)	Mass (Aprox.) Kg/m
200	219.1	4.5	210.1	23.81
250	273.0	4.5	264.0	29.80
300	323.8	4.5	314.8	35.43
350	355.6	4.5	346.6	38.96
400	406.4	4.5	397.4	44.60
200	219.1	6	207.1	31.53
250	273.0	6	261.0	39.51
300	323.8	6	311.8	47.02
350	355.6	6	343.6	51.73
400	406.4	6	394.4	59.24
450	457.2	6	445.2	66.76
500	508.0	6	496.0	74.28
600	609.6	6	597.6	89.31

BJ STEEL

COLD FORMED SECTION - LIPPED CHANNEL

PANNES - LONGERONS

LONGERONS SECCAO LAMINADA A FRIO



Size (mm)	Kg's/metre		
	2.0 (mm)	2.5 (mm)	3.0 (mm)
75 x 50 x 20	3.12	3.83	4.50
100 x 50 x 20	3.52	4.32	5.09
100 x 75 x 20	4.31	5.31	6.27
125 x 50 x 20	3.91	4.81	5.68
125 x 65 x 20	4.39	5.40	6.39
125 x 75 x 20	4.70	5.80	6.86
150 x 50 x 20	4.31	5.31	6.27
150 x 65 x 20	4.78	5.90	6.98
150 x 75 x 20	5.09	6.29	7.45
175 x 50 x 20	4.70	5.80	6.86
175 x 65 x 20	5.17	6.39	7.57
175 x 75 x 20	5.49	6.78	8.04

BS STEEL

Notes:

Standard lengths 6,0, 9,145 or 12,0 metre or rolled to exact length / Comprimentos padrão 6,0, 9.145 ou 12,0 metros ou rolou para comprimento exato / Les longueurs standard 6,0, 9145 ou 12,0 mètres ou roulé à la longueur exacte
Painted and punched facilities available / Disponible aussi peint ou pré-perforé sur demande / Peint installations et de poing disponibles
Galvanised material available / Disponible aussi en galvanisé / Du matériel galvanisé disponibles

COLD FORMED SECTION - LIPPED CHANNEL (continued)

PANNES - LONGERONS

LONGERONS SECCAO LAMINADA A FRIO

Size (mm)	Kg's/ metre		
	2.0 (mm)	2.5 (mm)	3.0 (mm)
200 x 50 x 20	5.09	6.29	7.45
200 x 65 x 20	5.53	6.88	8.16
200 x 75 x 20	5.88	7.27	8.63
225 x 50 x 20	5.49	6.78	8.04
225 x 65 x 20	5.96	7.37	8.75
225 x 75 x 20	6.27	7.76	9.22
250 x 50 x 20	5.88	7.27	8.63
250 x 65 x 20	6.35	7.86	9.34
250 x 75 x 20	6.67	8.25	9.81
300 x 50 x 20	6.67	8.25	9.81
300 x 65 x 20	7.14	8.84	10.52
300 x 75 x 20	7.45	9.24	10.99

Notes: All sizes rolled to order. We also offer Painted, Drilled and Galvanised.

COLD FORMED SECTION - LIPPED ANGLE

Size (mm)	Kg's/metre		
	2.0 (mm)	2.5 (mm)	3.0(mm)
75 x 50 x 20	2.41	2.95	3.47
100 x 75 x 20	3.19	3.93	4.65

Notes: All sizes rolled to order. We also offer Painted, Drilled and Galvanised.

BJ STEEL

EXPANDED METAL (RAISED)

METAL DEPLOYE A MAILLES SURELEVEES

MALHA DE FERRO

Reference	Size (mm)	Kg/Each
EXP250D	5/10/1.0/1.0	9.0
EXP305B	40/115/6.0/4.5	26
EXP311E	45/80/3.0/3.0	7
EXP315F	10/30/2.5/1.6	12
EXP318F	15/40/3.0/1.6	10
EXP318H	15/40/3.0/2.5	17
EXP320C	25/50/3.0/1.6	9
EXP320G	25/50/3.0/1.6	13
EXP320J	20/50/6.0/4.5	44
EXP325A	20/60/6.0/4.5	44

BS STEEL

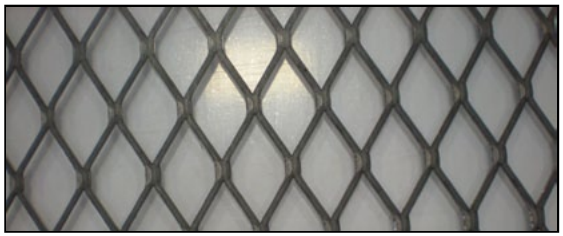
Notes:

Standard Sheet Size 2400 x 1200 mm / Dimension standard de la tôle 2400 x 1200 mm

EXPANDED METAL - FLATTENED

METAL DEPLOYE A MAILLES APLATIES

MALHA DE FERRO LISO



Reference	Size (mm)	Kg / Each
EXP6250D	5/10/1.2/1.0	11
EXP6311F	50/80/4.5/2.5	9
EXP6315F	10/30/3.0/1.6	13
EXP6317F	15/40/3.0/1.6	15
EXP6320C	25/50/3.0/1.6	6
EXP6320D	25/50/3.0/2.0	9
EXP6320E	25/50/4.5/2.5	17
EXP6320G	25/50/3.0/3.0	13
EXP6320H	25/50/4.5/3.0	19

BSI STEEL

Notes:

Standard Sheet Size 2400 x 1200 mm / Dimension standard de la tôle 2400 x 1200 mm

REINFORCING MESH

CONFORCE – MESH A BETON

MALHA DE VARÃO

Standard Square Fabric

Supplied In	Fabric Reference	Nominal pitch of wires		Nominal diameter of wires		Cross-sectional area per metre width		Nominal mass	Supplied In
		Longitudinal mm	Cross mm	Longitudinal mm	Cross mm	Longitudinal mm	Cross mm	kg/m²	
Standard Square Mesh	888	200	200	12	12	565	565	8.88	Sheets Only
	746	200	200	11	11	475	475	7.46	
	617	200	200	10	10	393	393	6.17	
	500	200	200	9	9	318	318	5.00	
	395	200	200	8	8	251	251	3.95	
	311	200	200	7.1	7.1	198	198	3.11	
	245	200	200	6.3	6.3	156	156	2.45	
	193	200	200	5.6	5.6	123	123	1.93	Sheets and Rolls
	100	200	200	4	4	63	63	1.00	

Standard Rectangular Fabric

Supplied In	Fabric Reference	Nominal pitch of wires		Nominal diameter of wires		Cross-sectional area per metre width		Nominal mass	Supplied In
		Longitudinal mm	Cross mm	Longitudinal mm	Cross mm	Longitudinal mm	Cross mm	kg/m²	
Design Mesh	1085	100	200	12	8	1131	251	10.85	Sheets Only
	943	100	200	11	8	950	251	9.43	
	772	100	200	10	7.1	786	197	7.72	
	655	100	200	9	7.1	636	197	6.55	
	517	100	200	8	6.3	503	156	5.17	
	433	100	200	7.1	6.3	396	156	4.33	
	341	100	200	6.3	5.6	312	123	3.14	
	289	100	200	5.6	5.6	246	123	2.89	
Longitudinal Mesh	278	100	300	6.3	4	312	42	2.78	Sheets Only
	226	100	300	5.6	4	246	42	2.26	
	133	100	300	4	4	126	42	1.33	Sheets or Rolls

Special Square Mesh Fabric

Supplied In	Fabric Reference	Nominal pitch of wires		Nominal diameter of wires		Cross-sectional area per metre width		Nominal mass	Supplied In
		Longitudinal mm	Cross mm	Longitudinal mm	Cross mm	Longitudinal mm	Cross mm	kg/m²	
Special Square Mesh fabric	200*	100	100	4.0	4.0	126	126	2.00	Sheets or Rolls
	156*	100	100	3.55	3.55	99	99	1.56	

ROOFING

TOLE ONDULE

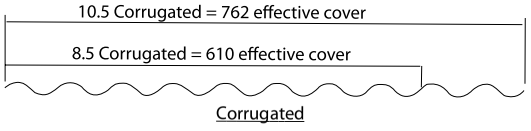
	Kg/m	Thickness (mm)	Coverage (mm)
8.5 Corrugated	1.654 1.87 2.50 2.99	0.27 0.3 0.4 0.5	610
10.5 Corrugated	1.837 1.984 2.61 3.495 3.53 4.35 5.95	0.25 0.27 0.3 0.4 0.47 0.5 0.58 0.8	762
IBR	1.837 1.984 2.97 3.53 3.72 4.35 5.95	0.25 0.27 0.4 0.47 0.5 0.58 0.8	686
Widespan	1.837 1.984 2.97 3.72 4.35	0.25 0.27 0.4 0.5 0.58	760

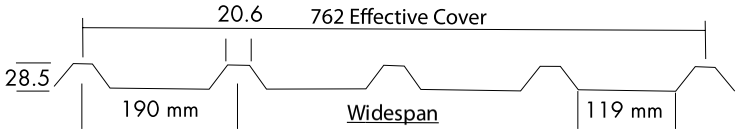
BSI STEEL

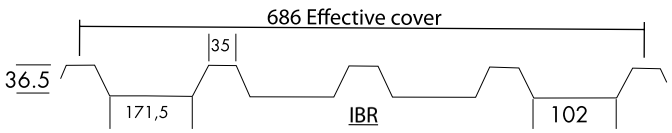
Notes:

Available in Galvanised, Zincalume, Chromadek and Colorbond / Disponible aussi en Galvanisé, AluZinc, Chromadek, et Colorbrand / Disponible en galvanisé, Zincalume, Chromadek et Colorbond

We have roofing lines producing IBR, Widespan and corrugated Roofsheets as well as Bullnosing / Cranking facilites / Tem linhas de coberturas diversas em ambos os IBR, Widespan e ondulado. Bem como perfis toroidais / Crankinginstalações / A des lignes de toiture de plusieurs à la fois dans l'IBR, Widespan et ondulé. Ainsi que Bullnosing / démarrage à des installations







Chromadek Paint: Standard colour range for exterior use.

Note: The colours may not display correctly due to individual computer screen settings. Different print technology can also result in colour deviation when printing this data sheet.

Note: Les couleurs peuvent variées selon les résolutions d'écrans d'ordinateurs. La différente technologie d'impression peut également avoir comme conséquence la déviation de couleur en imprimant cette fiche technique.

Fish Eagle White
No. N14128

White Lion
No. N15010

Sandstone Beige
No. N15365

Gemsbok Sand
No. N15366

Umhlanga Wave
No. N02103

Kingfisher Blue
No. N01029

Azure Blue
No. N01109

Buffalo Brown
No. N09412

Aloe Green
No. N03286

Traffic Green
No. N03002

Dove Grey
No. N13639

Dark Dolphin
No. N13030

Kalahari Red
No. N06551

BS STEEL

SPECIFICATIONS - PLATE / DONNEES TECHNIQUES – TOLES PLANES

FOR THE MECHANICAL AND CHEMICAL SPECIFICATIONS FOR LONG PRODUCTS GRADE S355JR, SANS 50025EN 10025/2004 PLEASE REFER TO DATA SHEETS ON https://longsteel.iscor.com/catalogue/default.htm

FOR THE MECHANICAL AND CHEMICAL SPECIFICATIONS FOR FLAT PRODUCTS GRADE EN10025-2-S355JR+AR PLEASE REFER TO DATA SHEETS ON https://flatsteel.iscor.com/catalogue/default.htm

QUALITY	CHEMICAL COMPOSITION % (LADLE ANALYSIS)												Tensile Strength (MIN) (MPA)	Yield Strength (MIN) (MPa)	Elongation % (MIN) IN GAUGE LENGTH		CHARPY V NOTCH	
	C	Mn	P	S	SI	V	AI	NI	Cr	Cu	B	Nb			200mm	5,56	Temp°C	Ave (J)
Mild Steel Commercial Quality	0,25 Max		0,04 Max	0,04 Max							Not Specified							
BS4360 43A	0,25 Max	1,60 Max	0,05 Max	0,05 Max	0,50 Max								430/ AR580	275 (t<16)	20	22		
43C	0,18 Max	1,50 Max	0,05 Max	0,05 Max	0,50 Max								430/ AR580	275 (t<16)	20	22	0	27
43D	0,16 Max	1,50 Max	0,04 Max	0,04 Max	0,10/ 0,50								430/ AR580	275 (t<16)	20	22	- 20	27
SANS 1431 300WA	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,50 Max								430/ AR580	300 (t<40)	20	22		
300WC	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,50 Max								430/ AR580	300 (t<40)	20	22	0	27
300WDD	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,50 Max								430/ AR580	300 (t<40)	20	22	- 30	27
HIGHER STRENGTH BS4360 50B	0,23 Max	1,60 Max	0,05 Max	0,05 Max	0,50 Max	0,003/ 0,10						0,003/ 0,10	450/ AR580	355 (t<16)	18	20	20	27
50C	0,20 Max	1,50 Max	0,05 Max	0,05 Max	0,50 Max							0,003/ 0,10	490/ AR580	355 (t<16)	18	20	0	27
SANS 1431 350WA	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,50 Max								480/ AR580	350 (t<40)	18	20		
350WC	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,50 Max								430/ AR580	350 (t<40)	18	20	0	27
350WDD	0,22 Max	1,60 Max	0,04 Max	0,04 Max	0,50 Max								430/ AR580	350 (t<40)	18	20	- 30	27
Corrosion resistant Corten A	0,12 Max	0,20/ 0,50	0,07/ 0,15	0,05 Max	0,25/ 0,75				0,65 Max	0,30/ 1,25	0,25/ 1,55		430/ AR580	345 (t<12.7)	18 (t<12.7)	22 (50mm)		
Corten B	0,19 Max	0,80/ 1,25	0,04 Max	0,05 Max	0,30/ 0,65	0,02/ 0,10	0,015/ 0,06		0,40 Max	0,40/ 0,65	0,25/ 0,40		430/ AR580	345 (t<100)	18 (t<100)	21 (50mm)		
Corten C	0,19 Max	0,80/ 1,35	0,04 Max	0,05 Max	0,30/ 0,65	0,04/ 0,10	0,015/ 0,06		0,40 Max	0,40/ 0,70	0,25/ 0,40		430/ AR580	415 (t<25)	16 (t<25)	21 (50mm)		
Wear Resistant S10/200	0,40/ 0,55	0,60/ 1,00	0,06 Max	0,06 Max	0,10/ 0,35		0,03						Sold to chemical analysis only					
Pressure Vessel BS1501/151/430A	0,25 Max	0,60/ 1,40	0,03 Max	0,045 Max	0,35 Max			0,10 Max	0,30 Max	0,25 Max	0,30 Max		430/ 550	240 (16<t<40)		23		
BS1501/151/430A	0,25 Max	0,60/ 1,40	0,03 Max	0,03 Max	0,10/ 0,35			0,10 Max	0,30 Max	0,25 Max	0,30 Max			230 (40<t<63)		23		

STEEL

SPECIFICATIONS - SHEETS / DONNEES TECHNIQUES – TOLES

QUALITY	CHEMICAL COMPOSITION % (LADLE ANALYSIS)									Tensile Strength (MIN) (MPA)	Yield Strength (MIN) (MPa)	Elongation % (MIN) IN GAUGE LENGTH		Mandrel diameter for 1800 bend test
	C	Mn	P	S	SI	Cu	Al	NI	Cr			50mm	200mm	
Commercial Quality	0,15 Max													
BS1449 HR37/23	0,20 Max	1,20 Max	0,05 Max	0,05 Max						370	230	28	20	2t<3mm 3t>3mm
HR43/25	0,25 Max	1,20 Max	0,05 Max	0,05 Max						430	250	25	16	3t
HR50/35	0,20 Max	1,50 Max	0,05 Max	0,05 Max						500	350	20	12	3t
KHR 1	0,08 Max	0,45 Max	0,025 Max	0,03 Max			0,02/ 0,06			290	170	34	25	Flat
HR 2	0,08 Max	0,54 Max	0,03 Max	0,035 Max						290	170	34	25	Flat
HR 3	0,10 Max	0,50 Max	0,04 Max	0,04 Max						290	170	28	21	Flat
HR 4	0,12 Max	0,60 Max	0,05 Max	0,05 Max						280	170	25	18	1t<3mm 3t>3mm
Cold Rolled KCR 1	0,08 Max	0,45 Max	0,025 Max	0,03 Max			0,02/ 0,07			280-	140	38	29	Flat
CR2	0,15 Max	0,15 Max	0,025 Max	0,035 Max						280	140	36	27	Flat
CR3	0,10 Max	0,50 Max	0,04 Max	0,04 Max						} Subject to negotiation				
CR4	0,12 Max	0,60 Max	0,05 Max	0,05 Max										
TYPICAL CHEMICAL COMPOSITION %														
Supraform HR190	0,06	0,30	0,02 Max	0,02 Max	0,02		0,03							Flat
HR220	0,05	0,25	0,02 Max	0,02 Max	0,02		0,03							Flat
HR250	0,10	0,55	0,02 Max	0,02 Max	0,02		0,03							2<t<4=Flat 4<t<8=1t
HR290	0,16	0,65	0,02 Max	0,02 Max	0,02		0,03							2<t<4=Flat 4<t<8=1,5t

STEEL

COMMON TERMINOLOGY / ABREVIATION / TERMINOLOGIA

H.R	Hot Rolled / Lamine a Chaud / Lamindo a quente
C.R	Cold Rolled or Cold Reduced / Lamine a Froid ou De Cape a Froid/ Reducao a Frio
P&O	Pickled & Oiled / Huile / Limpeza Oleado
C	Carbon / Carbone / carbono
Si	Silicon / Silicone / Silicio
Mn	Manganese / Managanese / Manganez
P&S	Phosphor and Sulphur / Phosphore et Soufre / Fosforo enxofre
Cr	Chromium / Chrome / Cromo
Mo	Molybdenum / Molybdene / Molibidanio
Ni	Nickel / Nickel / Niquel
T.S.	Tensile Strength / Force de Tension / Tensao de Rotura
Y.S.	Yield Strength / Force de Rupture / Tensao de Cedencia
El	Elongation / Elongation / Alongamento
Kgs	Kilogrammes (1000 kg's = 1 tonne) / Kilos / Kg Tonelada
Dia	Diameter / Diametre / Diametro
i/d	Inside Diameter / Diametre Interieur / D. Interno
o/d	Outside Diameter / Diametre Interieur / D. Externo
P.E.	Plain Ends / Bouts Unis / Ponta Simples
S&S	Screwes & Socketted / Visse en Emboite / Rosqueado e Encaixado
P.E.U.C	Plain ends uncoated

STEEL

CONVERSION FACTORS / FACTEURS DE CONVERSION / DADOS DE CONVERSÃO

Inches / Pouces / Polgada	x	25.4	= Millimetres / Millimetres / Milimetros
Millimetres / Millimetres / Millimetros	x	0.03937	= Inches / Pouces / Polgada
Feet / Pieds / PE	x	0.3048	= Metres / Metres / Metros
Yards / Yards / Jarda	x	0.9144	= Metres / Metres / Metros
Metres / Metres / Metros	x	39.37	= Inches / Pouces / Polgada
Metres / Metres / Metros	x	3.2808	= Feet / Pieds / PE
Metres / Metres / Metros	x	1.0936	= Yards / Yards / Jarda
Square centimetres / Centimetres carres / CM	x	0.1550	= Square inches / Pouces carres
Square inches / Pouces carres / P	x	6.4516	= Square centimetres / Centimetres carres / CM
Square metres / Metres carres / Metro	x	10.7639	= Square feet / Pieds carres / PE
Square metres / Metres carres / Metro	x	1.1960	= Square yards / Yards carres / PE
Square yards / Yards carres / Jarda	x	0.8361	= Square metres / Metres carres / Metro
Square feet / Pieds carres / PE	x	0.0929	= Square metres / Metres carres / Metro
Cubic centimetres / Centimetres Carres / CM	x	0.0610	= Cubic inches / Pouces cubes / Polgada
Cubic inches / Pouces cubes / Polgada	x	16.3871	= Cubic centimetres / Centimetres Carres
Cubic metres / Metres cubes / Mertro	x	35.3147	= Cubic feet / Pieds cubes / PE3 Cubico
Cubic feet / Pieds cubes / PE3 Cubico	x	0.0283	= Cubic metres / Metres cubes / CM
Grams / Grammes / Grama	x	15.432	= Grams / Grammes / Grama
Kilograms / Livres / Libra	x	2.2046	= Pounds / Livres / Libra
Pounds / Livres / Libra	x	0.45359	= Kilograms / Livres / Kilogramas
Metric tons (1000 kg) / Tonnes metriques / Meirica	x	0.9842	= Tons/Tonnes/Tonelada
Tons / Tonnes / Tonelada	x	1.016	= Metric tons / Tonnes metriques / Meirica

BSTEEL

CONVERSION FACTORS / FACTEURS DE CONVERSION / QUADRA DE CONVERSÃO

Kilograms per square metre Kilos par metre carre Kilos por metro quadiado	x	0.2048	= Pounds per square foot = Livres par pied carre = Libra por Pe quadrado
Pounds per square foot Livres par pied carre Libra por pe quadrado	x	4.882	= Kilograms per square metre = Kilos par metre carre = Kilos por metro quadrado
Grams per square metre Grammes per metre carre Gramas por metro quadrado	x	0.02949	= Ounces per square yard = Ounces par yard carre = Onca por jarda quadrada
Ounces per square yard Onces par yard carre Onca por jarda quadrada	x	33.9056	= Grams per square metre = Grammes par metre carre = Gramas por metro quadrada
Kilograms per square centimetre Kilos par centimetre carre Kilos por centimetro quanrado	x	14.223	= Pounds per square inch = Livres par pouce carre = Libra por polgada quadrada
Pounds per square inch Livres par pouce carre Libra por polgada quadrada	x	0.0703	= Kilograms per square centimetre = Kilos par centimetre carre = Kilos por centimetro quadrado
Tons per square inch Tonnes par pouce carre Tonelada por polgada quadrada	x	1.5749	= Kilograms per square millimetre = Kilos per millimetre carre = Kilos por centimetro quadrado
Kilograms per cubic centimetre Kilos par centimetre cube Kilos por cm cubico	x	36.1273	= Pounds per cubic inch = Livres par pouce cube = Libra por polgada quadrado
Kilograms per cubic metre Kilos par metre cube Kilos por metro cubica	x	0.06243	= Pounds per cubic foot = Livres par pied cube = Libra por Pe cubico
Kilograms per cubic metre Kilos par metre cube Kilos por metro cubico	x	1.68555	= Pounds per cubic yard = Livres par yard cube = Libra por jardh cubica
Pounds per cubic inch Livres par ounce cube Libra por polgada quadrada	x	0.0277	= Kilograms per cubic centimetres = Kilos par centimetre cube = Kilos por cm cubico
Pounds per cubic foot Livres par pied cube Libra por Pe cubico	x	16.019	= Kilograms per cubic metre = Kilos par metre cube = Kilos por metro cubico
Pounds per cubic yard Livres par yard cube Libra por jarda cubica	x	0.5933	= Kilograms per cubic metre = Kilos par metre cube = Kilos por metro cubico

BSI STEEL

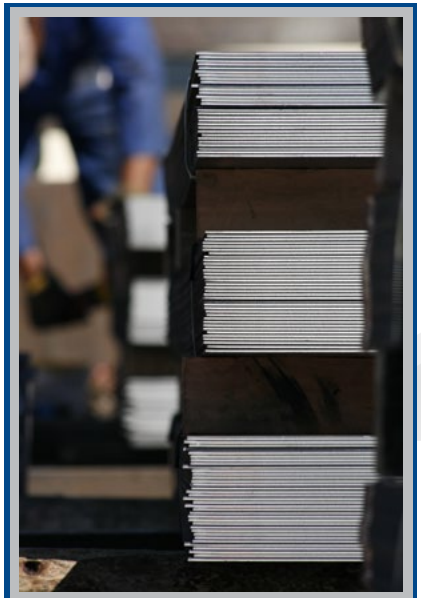
GAUGE TABLE / TABLEAU DES GAUGES / QUADRA DE CONVERSÃO

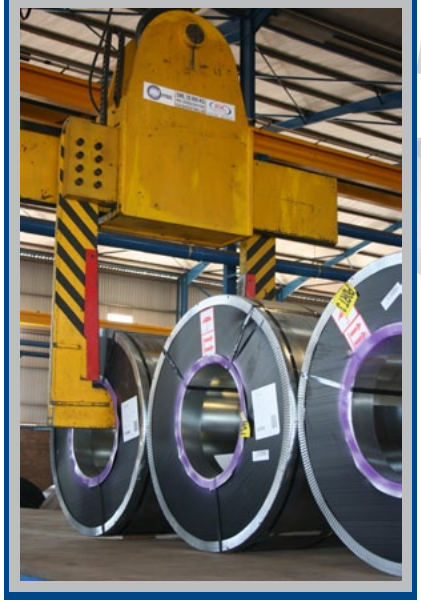
Gauge Jauge Medidas No.	SWG Pouces Polegadas Inches	SWG SWG SWG mm
0	.324	8.230
1	.300	7.620
2	.276	7.010
3	.252	6.401
4	.232	5.893
5	.212	5.385
6	.192	4.877
7	.176	4.470
8	.160	4.064
9	.144	3.658
10	.128	3.251
11	.116	2.946
12	.104	2.642
13	.092	2.337
14	.080	2.032
15	.072	1.829
16	.064	1.626
17	.056	1.422
18	.048	1.219

Gauge Jauge Medidas No.	SWG Pouces Polegadas Inches	SWG SWG SWG mm
19	.040	1.016
20	.036	0.914
21	.032	0.813
22	.028	0.711
23	.024	0.610
24	.022	0.559
25	.020	0.508
26	.018	0.457
27	.0164	0.4166
28	.0148	0.3759
29	.0136	0.3454
30	0.124	0.3150
31	.0116	0.2946
32	.0108	0.2743
33	.0100	0.254
34	.0092	0.2369
35	.0084	0.2134
36	.0076	0.1930

BS STEEL

THEORITICAL CALCULATIONS / CALCULS THEORIQUES





1. Mass of a sheet < 4.5mm
   Length x Width x Thickness x 8.039
   1000 1000

2. Mass of a plate > 4.5mm
   Length x Width x Thickness x 7.85
   1000 1000

3. Inside Diameter
   O.D. minus 2 x wall thickness

4. Mass of a Round Tube
   O.D. minus wall x wall x 0.02466
   Sample - 50.8 x 2.0 Round
   Calculation: 50.8 - 2.0 = 48.8 x 2 = 97.6 x 0.02466 = 2.40 kg/metre

5. To calculate the mass of a square or rectangular tube, first work out the round 'input' size and then the mass of the round tube. Round "input" size for square or rectangular tube.
   Side A + Side B x 2
   3.142
   Sample - 50.8 x 25.4 Rectangular
   Calculation: 50.8 + 25.4 = 76.2
   76.2 x 2 = 152.4
   152.4
   3.142 = 48.5

6. Rands per Ton
   Price per Unit x 1000
   Mass

7. Round Bar: D x D x 0.00616 = kg/metre

8. Hexagonal Bar: D x D x 0.0068 = kg/metre

9. Square Bar: D x D x 0.00787

10. Flat Bar: D x t x 0.00786

BBJ STEEL

CONTACT OUR DIVISIONS:

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South African Offices:

Division	City	Telephone	Facsimile	Physical Address
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BSi Steel Gauteng	**Johannesburg**	+27 (0) 11 861 7600	+27 (0) 11 861 7611	Erf 24, Farm Waterval, M61 Kliprivier, Gauteng 1451
BSi Steel Express	**Kya Sands**	+ 27 11 704 3700	+ 27 11 704 3701	9 Kya Sands Road, Kya Sands, 2169
	Wychwood	+27 11 615 5167	+27 11 615 5197	87 Main Reef Road, Wychwood, Germiston
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	Kitwe	+ 260 212 210670 + 260 212 210063	+260 2 210066	Chibuluma Road, Heavy Industrial Area, Kitwe
BSi Steel Zimbabwe	**Harare**	+263 4 759 590/5	+263 4 754 324	57 Coventry Road, Workington, Harare
	Bulawayo	+263 9 477072 +263 9 471513/4	+263 9 477072	92 Plumtree Road, Donnington, Bulawayo
BSi Steel Katanga DRC	**Lubumbashi**	+243 821 920 000	+ 166 1420 6002	10C Avenue Munguzi Lubumbashi
	Kolwezi	+243 82 2999000		2191 Ave Du Nord, Kolwezi, Katanga
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BSi Steel Mozambique	**Maputo**	+258 21 - 750771 +258 21 - 750772	+258 21-750773	Av. Das Industrias parcela no 27 Talhao no 750, Matola
	Tete	+252 23090	+252 23093	Avenida da Liberdade ,No482, Tete

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