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METALS (2004) LTD

Bright & Black Bar Stockholders

Apollo for all your
Bright and Black Engineering
bar requirements

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BRIGHT AND BLACK BAR

TO BS 970: Part 1: 1991 • Dimensions to BS 970: Part 3 1991 • Lengths 3 - 3.65 Metres



ROUNDS – METRIC

SIZE	kg/m	EN3B 070M20/ 080A15	EN1A 230M07	EN1A LFC 230M07 pb	EN8 080A42
5	0.15	●		●	
6	0.22	●	●	●	●
8	0.39	●	●	●	●
9	0.52	●		●	
10	0.62	●	●	●	●
12	0.89	●	●	●	●
13	1.04			●	
14	1.21	●			
15	1.38	●	●	●	●
16	1.57	●	●	●	●
17	1.79			●	
18	2.00			●	●
20	2.46	●	●	●	●
22	2.98	●	●	●	
25	3.85	●	●	●	●
28	4.86	●		●	
30	5.54	●	●	●	●
34	7.13			●	
35	7.54	●	●	●	●

SIZE	kg/m	EN3B 070M20/ 080A15	EN1A 230M07	EN1A LFC 230M07 pb	EN8 080A42
36	7.98		●	●	
40	9.84	●	●	●	●
45	12.50	●	●	●	●
50	15.40	●	●	●	●
55	18.65	●	●	●	
60	22.30	●	●	●	●
65	26.00	●	●		
70	30.10	●	●	●	●
75	34.60	●	●	●	●
80	39.40	●	●		●
90	49.80	●	●		●
95	55.60	●			
100	61.50	●	●	●	●
110	74.60		●		
120	88.80	●			●
130	104.11	●			
140	121.23	●			
150	139.16	●			
170	178.03		●		

ROUNDS – IMPERIAL

SIZE	kg/m	EN3B 070M20/ 080A15	EN1A 230M07	EN1A LFC 230M07 pb	EN8 080A42
1/8	0.06	●		●	
3/16	0.14	●		●	
1/4	0.25	●	●		●
5/16	0.39	●	●	●	
3/8	0.56	●	●	●	
7/16	0.76	●	●	●	
1/2	1.00	●	●	●	●
9/16	1.26	●	●		
5/8	1.55	●	●	●	●
11/16	0.88		●	●	
3/4	2.24	●	●	●	●
13/16	2.63		●	●	
7/8	3.05	●	●	●	●
15/16	3.52		●	●	
1	3.98	●	●	●	●
1 1/16	4.51	●	●	●	
1 1/8	5.08	●	●	●	●
1 3/16	5.63		●	●	
1 1/4	6.22	●	●	●	●
1 5/16	6.87	●	●	●	
1 3/8	7.52	●	●	●	●
1 1/2	8.95	●	●	●	●
1 5/8	10.50	●	●	●	●
1 11/16	11.31		●	●	
1 3/4	12.20	●	●	●	●
1 7/8	14.00	●	●	●	●

SIZE	kg/m	EN3B 070M20/ 080A15	EN1A 230M07	EN1A LFC 230M07 pb	EN8 080A42
2	15.90	●	●	●	●
2 1/8	18.00	●		●	
2 1/4	20.10	●	●	●	●
2 3/8	22.50	●	●	●	●
2 1/2	24.90	●	●		●
2 5/8	27.40	●		●	
2 3/4	30.10	●	●	●	
3	35.80	●	●	●	●
3 1/4	41.90	●	●	●	
3 1/2	48.50	●	●	●	●
3 3/4	55.80	●	●		
4	63.50	●	●	●	●
4 1/4	71.70			●	
4 1/2	80.40	●	●		
4 3/4	89.60	●	●		
5	99.20	●	●		
5 1/4	109.40	●			
5 1/2	120.00	●	●		
6	143.00	●	●		
6 1/4	155.00	●			
6 1/2	168.00	●	●		
7	194.00	●	●		
8	254.00	●	●		
9	322.00	●	●		
10	397.00	●	●		

SIZE	BD EN16T (605M36T)	BDEN 19T (708M40T)	BD EN24T (817M40T)
1/2	●	●	●
5/8	●	●	●
3/4	●	●	●
7/8	●	●	●
1	●	●	●
1 1/4	●	●	●

SIZE	BD EN16T (605M36T)	BDEN 19T (708M40T)	BD EN24T (817M40T)
1 3/8	●	●	●
1 1/2	●	●	●
1 3/4	●	●	●
2	●	●	●
2 1/4	●	●	●
2 1/2	●	●	●

SIZE	BE EN16T (605M36T)	BDEN 19T (708M40T)	BD EN24T (817M40T)
12	●	●	●
16	●	●	●
20	●	●	●
25	●	●	●
30	●	●	●

SIZE	BD EN16T (605M36T)	BDEN 19T (708M40T)	BD EN24T (817M40T)
35	●	●	●
40	●	●	●
45	●	●	●
50	●	●	●
60	●	●	●

BRIGHT AND BLACK BAR

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FLAT – IMPERIAL 080A15 (EN3B)

SIZE - INCHES	kg/m
$\frac{5}{16} \times \frac{1}{4}$	0.40
$\frac{3}{8} \times \frac{1}{8}$	0.24
$\frac{3}{8} \times \frac{3}{16}$	0.36
$\frac{3}{8} \times \frac{1}{4}$	0.47
$\frac{3}{8} \times \frac{5}{16}$	0.60
$\frac{1}{2} \times \frac{1}{8}$	0.32
$\frac{1}{2} \times \frac{3}{16}$	0.47
$\frac{1}{2} \times \frac{1}{4}$	0.63
$\frac{1}{2} \times \frac{5}{16}$	0.79
$\frac{1}{2} \times \frac{3}{8}$	0.95
$\frac{5}{8} \times \frac{1}{8}$	0.39
$\frac{5}{8} \times \frac{3}{16}$	0.59
$\frac{5}{8} \times \frac{1}{4}$	0.79
$\frac{5}{8} \times \frac{5}{16}$	0.99
$\frac{5}{8} \times \frac{3}{8}$	1.18
$\frac{5}{8} \times \frac{1}{2}$	0.58
$\frac{3}{4} \times \frac{1}{8}$	0.48
$\frac{3}{4} \times \frac{3}{16}$	0.71
$\frac{3}{4} \times \frac{1}{4}$	0.95
$\frac{3}{4} \times \frac{5}{16}$	1.18
$\frac{3}{4} \times \frac{3}{8}$	1.42
$\frac{3}{4} \times \frac{1}{2}$	1.90
$\frac{3}{4} \times \frac{5}{8}$	2.37
$\frac{7}{8} \times \frac{1}{8}$	0.55
$\frac{7}{8} \times \frac{3}{16}$	0.83
$\frac{7}{8} \times \frac{1}{4}$	1.11
$\frac{7}{8} \times \frac{5}{16}$	1.38
$\frac{7}{8} \times \frac{3}{8}$	1.66
$\frac{7}{8} \times \frac{1}{2}$	2.22
$1 \times \frac{1}{8}$	0.63
$1 \times \frac{3}{16}$	0.95
$1 \times \frac{1}{4}$	1.27
$1 \times \frac{5}{16}$	1.58
$1 \times \frac{3}{8}$	1.90
$1 \times \frac{1}{2}$	2.53

SIZE - INCHES	kg/m
$1 \times \frac{5}{8}$	3.16
$1 \times \frac{3}{4}$	3.80
$1\frac{1}{4} \times \frac{1}{8}$	0.79
$1\frac{1}{4} \times \frac{3}{16}$	1.18
$1\frac{1}{4} \times \frac{1}{4}$	1.58
$1\frac{1}{4} \times \frac{5}{16}$	1.97
$1\frac{1}{4} \times \frac{3}{8}$	2.37
$1\frac{1}{4} \times \frac{1}{2}$	3.16
$1\frac{1}{4} \times \frac{5}{8}$	3.95
$1\frac{1}{4} \times \frac{3}{4}$	4.74
$1\frac{1}{4} \times \frac{7}{8}$	5.53
$1\frac{1}{4} \times 1$	6.33
$1\frac{1}{2} \times \frac{1}{8}$	0.95
$1\frac{1}{2} \times \frac{3}{16}$	1.42
$1\frac{1}{2} \times \frac{1}{4}$	1.90
$1\frac{1}{2} \times \frac{5}{16}$	2.37
$1\frac{1}{2} \times \frac{3}{8}$	2.84
$1\frac{1}{2} \times \frac{1}{2}$	3.80
$1\frac{1}{2} \times \frac{5}{8}$	4.74
$1\frac{1}{2} \times \frac{3}{4}$	5.69
$1\frac{1}{2} \times 1$	7.60
$1\frac{1}{2} \times 1\frac{1}{4}$	9.50
$1\frac{3}{4} \times \frac{1}{8}$	1.11
$1\frac{3}{4} \times \frac{3}{16}$	1.66
$1\frac{3}{4} \times \frac{1}{4}$	2.21
$1\frac{3}{4} \times 1$	8.85
$1\frac{3}{4} \times 1\frac{1}{2}$	13.28
$2 \times \frac{1}{8}$	1.27
$2 \times \frac{3}{16}$	1.90
$2 \times \frac{1}{4}$	2.53
$2 \times \frac{5}{16}$	3.18
$2 \times \frac{3}{8}$	3.80
$2 \times \frac{1}{2}$	5.60
$2 \times \frac{5}{8}$	6.33
$2 \times \frac{3}{4}$	7.60

SIZE - INCHES	kg/m
2×1	10.12
$2 \times 1\frac{1}{4}$	12.65
$2 \times 1\frac{1}{2}$	15.18
$2 \times 1\frac{3}{4}$	17.71
$2\frac{1}{4} \times \frac{1}{2}$	5.69
$2\frac{1}{4} \times 1$	11.38
$2\frac{1}{2} \times \frac{1}{8}$	1.58
$2\frac{1}{2} \times \frac{3}{16}$	2.37
$2\frac{1}{2} \times \frac{1}{4}$	3.18
$2\frac{1}{2} \times \frac{5}{16}$	3.95
$2\frac{1}{2} \times \frac{3}{8}$	4.74
$2\frac{1}{2} \times \frac{1}{2}$	6.33
$2\frac{1}{2} \times \frac{5}{8}$	7.91
$2\frac{1}{2} \times \frac{3}{4}$	9.50
$2\frac{1}{2} \times 1$	12.65
$2\frac{1}{2} \times 1\frac{1}{4}$	15.81
$2\frac{1}{2} \times 1\frac{1}{2}$	18.97
$2\frac{1}{2} \times 2$	25.30
$3 \times \frac{1}{8}$	1.09
$3 \times \frac{3}{16}$	2.84
$3 \times \frac{1}{4}$	3.79
$3 \times \frac{5}{16}$	4.74
$3 \times \frac{3}{8}$	5.69
$3 \times \frac{1}{2}$	7.60
$3 \times \frac{5}{8}$	9.50
$3 \times \frac{3}{4}$	11.39
3×1	15.18
$3 \times 1\frac{1}{4}$	18.97
$3 \times 1\frac{1}{2}$	22.77
3×2	30.36
$3\frac{1}{2} \times \frac{3}{8}$	6.68
$3\frac{1}{2} \times \frac{1}{2}$	8.88
$3\frac{1}{2} \times \frac{5}{8}$	11.10
$3\frac{1}{2} \times \frac{3}{4}$	13.20
$4 \times \frac{3}{16}$	3.30

SIZE - INCHES	kg/m
$4 \times \frac{1}{4}$	5.60
$4 \times \frac{5}{16}$	6.33
$4 \times \frac{3}{8}$	7.60
$4 \times \frac{1}{2}$	10.12
$4 \times \frac{5}{8}$	12.65
$4 \times \frac{3}{4}$	15.18
4×1	20.24
$4 \times 1\frac{1}{4}$	30.36
4×2	40.48
4×3	58.90
$5 \times \frac{1}{4}$	6.33
$5 \times \frac{3}{4}$	9.49
$5 \times \frac{1}{2}$	13.65
$5 \times \frac{5}{8}$	15.81
$5 \times \frac{3}{4}$	18.97
5×1	25.30
5×2	50.60
$5 \times 2\frac{1}{2}$	63.20
$6 \times \frac{1}{4}$	7.59
$6 \times \frac{5}{16}$	9.50
$6 \times \frac{3}{8}$	11.38
$6 \times \frac{1}{2}$	15.18
$6 \times \frac{5}{8}$	18.97
$6 \times \frac{3}{4}$	22.77
6×1	30.36
6×2	60.72
$8 \times \frac{1}{2}$	45.54
$8 \times \frac{1}{4}$	10.12
$8 \times \frac{3}{8}$	15.18
$8 \times \frac{1}{2}$	20.24
8×1	40.48
$10 \times \frac{1}{2}$	25.30
10×1	50.60

FLAT – METRIC 080A15 (EN3B)

SIZE - mm	kg/m
12 x 3	0.20
12 x 10	0.94
12 x 16	0.39
16 x 6	0.75
16 x 10	1.25
16 x 12	1.50
20 x 5	0.78
20 x 6	0.94
20 x 8	1.25
20 x 10	1.57
20 x 12	1.88
20 x 16	2.51
25 x 3	0.59
25 x 4	0.78
25 x 5	0.98
25 x 6	1.18
25 x 8	1.57
25 x 10	1.96
25 x 12	2.35
25 x 16	3.14
25 x 20	3.92
30 x 3	0.70
30 x 5	1.18
30 x 6	1.41

SIZE - mm	kg/m
30 x 8	1.88
30 x 10	2.35
30 x 12	2.82
30 x 20	4.70
30 x 25	7.05
35 x 30	8.23
40 x 3	0.94
40 x 5	1.57
40 x 6	1.88
40 x 8	2.51
40 x 10	3.14
40 x 12	3.76
40 x 16	5.02
40 x 20	6.27
40 x 25	7.84
40 x 30	9.41
40 x 35	10.98
50 x 3	1.18
50 x 5	1.96
50 x 6	2.35
50 x 8	3.14
50 x 10	3.92
50 x 12	4.70
50 x 16	6.27

SIZE - mm	kg/m
50 x 20	7.64
50 x 25	9.80
50 x 30	11.77
50 x 40	15.70
60 x 6	2.82
60 x 10	4.70
60 x 12	5.65
60 x 16	7.53
60 x 20	9.41
60 x 30	14.13
65 x 6	3.06
65 x 10	5.10
65 x 12	6.12
65 x 20	10.20
65 x 40	20.39
70 x 16	8.79
70 x 20	10.98
75 x 10	5.88
70 x 25	13.74
80 x 6	3.76
80 x 10	6.27
80 x 12	7.53
80 x 16	10.03
80 x 20	12.55

SIZE - mm	kg/m
80 x 25	15.68
80 x 40	25.16
80 x 50	31.37
90 x 6	4.24
90 x 10	7.06
90 x 12	8.46
90 x 16	11.30
90 x 20	14.13
100 x 6	4.70
100 x 10	7.84
100 x 12	9.41
100 x 16	12.55
100 x 20	15.68
100 x 25	19.60
100 x 30	23.55
100 x 40	30.40
100 x 50	39.25
125 x 8	7.84
125 x 10	9.80
125 x 12	11.76
150 x 12	14.13
150 x 16	18.84

BRIGHT AND BLACK BAR

TO BS 970: Part 1: 1991 • Dimensions to BS 970: Part 3 1991 • Lengths 3 - 3.65 Metres



SQUARE – IMPERIAL

080A15 (EN3B)

SIZE - INCHES	kg/m
1/8	0.10
3/16	0.18
1/4	0.32
5/16	0.49
3/8	0.71
7/16	0.97
1/2	1.27
5/8	1.98
3/4	2.85
7/8	3.88

SIZE - INCHES	kg/m
1	5.07
1 1/8	6.00
1 1/4	7.91
1 1/2	11.40
1 3/4	15.50
2	20.30
2 1/4	25.70
1 1/2	31.70
3	45.60
4	80.90

SQUARE – METRIC

080A15 (EN3B)

SIZE - INCHES	kg/m
10	0.75
12	1.13
16	2.00
20	3.14
25	4.90
30	7.06
40	12.55
50	19.60
60	28.23

HEXAGON

EN1A/230M07 EN1ALFX 230M07 pb

SIZE - INCHES	kg/m
0.375	0.60
0.437	0.84
0.500	1.09
0.525	1.21
0.625	1.71
0.750	2.46

SIZE - INCHES	kg/m
0.875	3.30
0.920	3.70
1.000	4.39
1.250	6.85
1.500	9.86
1.69	

PLASTICS

ACETAL	POLYETHYLENE
NYLON 6	PTFE
NYLON 66	TUFNOL

BRASS

Rounds, Flats & Hexagons

STAINLESS

303, 304, 316	
416, 431	-Rounds, Squares, Hexagons & Flats

ALUMINIUM

HE9	
HE30	- Rounds, Flats
FMA	Squares & Plate

BLACK ROUNDS

MILD STEEL	- 6mm	to	500mm dia
EN 8	- 20mm	to	500mm dia
EN 16T	- 25mm	to	350mm dia
EN 19T	- 25mm	to	350mm dia
EN 24T	- 25mm	to	350mm dia
EN 24V	- 45mm	to	130mm dia
EN 26W	- 70mm	to	250mm dia
EN 36	- 25mm	to	350mm dia
EN 40B	- 40mm	to	400mm dia
B6 20	- 34mm	to	160mm dia
16 MNCR55	- 35mm	to	150mm dia

BLACK FLATS

MILD STEEL	13mm	x	3mm
		to	
	400mm	x	25mm

BLACK ANGLES

13mm x 13 x 3mm
to
200mm x 200mm x 20mm

BLACK SQUARES

MILD STEEL	-10mm to 100mm
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KEY STEELS

TOOL STEELS

PHOSPHOR BRONZE

WELDED MESH

PERFORATED SHEET



Bright and Black Engineering Bar Stockholders

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