

Std. Size (mm)		Cross-Sectional Area (mm ²)	Unit Weight (kg/m)	No. of Pcs. 12m Length Per Bundle	Weight Per Bundle (MT)	Deviation over and under The nominal Mass Per Meta Run%
High Yield Deformed	Mild Steel Round					
D 8	8	50.3	0.395	210	0.995	-
D 9	9	63.6	0.499	168	1.006	
D10	10	78.5	0.616	138	1.020	
D12	12	113.1	0.888	96	1.023	
D16	16	201.1	1.579	54	1.023	
D20	20	314.2	2.466	34	1.006	
D22	22	380.1	2.984	28	1.003	
D25	25	490.9	3.854	22	1.017	
D28	28	615.8	4.834	18	1.044	
D32	32	804.2	6.313	14	1.061	
D40	-	1.256.6	9.864	9	1.065	±4.5%

- High Yield Deformed Bar Standard Length: 12 metres straight
- Mild Steel Round Bar Standard Length: 12 metres straight or 12 metres once folded
- Special cut length can be produced from 6m to 15m on a certain min. quantity per size per order upon request.

Hot Rolled Steel Bars for The Reinforcement of Concrete

Specification	Grade	Chemical Composition						Size (mm)	Min Yield (N/mm ²)	Min Tensile (N/mm ²)	Min Strees Ratio	Min Elongation GL=5.65 SO (%)	Total EL of Max Load Min Aqt (%)	Former Ø for 180° Bend Test (mm)	Former Ø for 45° Re bend Test (mm)	Former Ø for 90° Re bend Test (mm)
		C%Max	Si%Max	Mn%Max	P%Max	S%Max	Ce%Max									
MS146 :2000	High Yield Deformed Bar G460	0.25	-	-	0.050	0.050	0.51	All Size	460	-	1.05	12	-	3D	5D	-
	High Yield Deformed Bar G500	0.30	-	-	0.050	0.050	0.51	All Size	500	-	1.05	12	-	3D	5D	-
	Mild Steel Round Bar G250	0.25	-	-	0.060	0.060	0.42	All Size	250	-	1.05	22	-	2D	2D	-
BS 4449 : 1997	High Yield Deformed Bar G460	0.25	-	-	0.050	0.050	0.51	All Size	500	-	1.08	14	5	-	D<20=5D D>16=7D	-
	Mild Steel Round Bar G250	0.25	-	-	0.060	0.060	0.42	All Size	250	-	1.15	22	-	-	2D	-
SS2 PART 2 : 1999	High Yield Deformed Bar G500	0.22	0.60	1.70	0.050	0.050	0.50	All Size	500	550	1.05	14	2.5	20-250	-	32-400
SS2 PART 1 : 1999	Mild Steel Round Bar G300	-	-	-	0.060	0.060	Nil	6-20	300	330	1.10	16	-	12.50-63	-	-
AS/NZS 46571 : 2001	High Yield Deformed Bar G500N	0.22	-	-	0.050	0.050	0.44	12-36	500-650	-	1.08	-	5	D>20=4D	-	D>16=4D
	Mild Steel Round Bar G250N	0.22	-	-	0.050	0.050	0.43	12-36	250	-	1.08	-	5	D>20=4D	-	D>16=4D
	High Yield Deformed Bar G500E	0.22	-	-	0.050	0.050	0.49	6-40	500-800	-	1.15-1.40	-	10	D>20=4D	-	D>16=4D
	Mild Steel Round Bar G300E	0.22	-	-	0.050	0.050	0.43	6-25	300-380	-	1.15-1.50	-	15	D>20=4D	-	D>16=4D

Note : CE = Carbon Equivalent = $C + \frac{Mn}{6} + \frac{Cr + Mo + V}{5} + \frac{Ni + Cu}{15}$

- GL - Gauge Length
- SO - Original Cross Section Area of Test Piece
- D - Nominal Size of Bar
- Ø - Diameter

Torsid Bars - TORSID bars are produced from low carbon steel by a special heat treatment process during rolling giving the bar an exceptional combination of strength, toughness, ductility and weldability and has the exact properties of TEMP CORE bars. It complies with all the test requirement of BS 4449 : 1997, Ms 146 : 2000, SS2 PART 1 & 2 : 1999 AND AS/NZS 4671 : 2001 pertaining to yield stress, tensile strength, elongation, bending, rebending and weldability.