

# Reinforcing Steel Bar Chart

Figure 1, *Table of Reinforcing Steel Bar Dimensions*, contains bar sizes that reflects both English and Metric (SI) units of the ASTM reinforcing bar standards.

Note that A615 and A706 specifications are currently in use; the A305 specification existed from 1947 to 1968. For older structures, it is prudent to anticipate varieties of reinforcing bars such as square bars.

# Reinforcing Steel Bar Chart

REINFORCING STEEL						
ASTM STANDARD REINFORCING BARS						
BAR SIZE		NOMINAL DIMENSIONS - ROUND SECTIONS				APPROX DIAMETER OUTSIDE DEFORMATIONS (inches)
ENGLISH	METRIC	CROSS SECTIONAL AREA (in <sup>2</sup> )	WEIGHT (lbs/ft)	NOMINAL DIAMETER (inches)	PERIMETER (inches)	
# 3	[# 10]	0.11	0.376	0.375	1.178	0.4375
# 4	[# 13]	0.20	0.668	0.500	1.571	0.5625
# 5	[# 16]	0.31	1.043	0.625	1.963	0.6875
# 6	[# 19]	0.44	1.502	0.750	2.356	0.875
# 7	[# 22]	0.60	2.044	0.875	2.749	1
# 8	[# 25]	0.79	2.670	1.000	3.142	1.125
# 9	[# 29]	1.00	3.400	1.128	3.544	1.25
# 10	[# 32]	1.27	4.303	1.270	3.99	1.4375
# 11	[# 36]	1.56	5.313	1.410	4.43	1.625
# 14	[# 43]	2.25	7.650	1.693	5.306	1.875
# 18	[# 57]	4.00	13.600	2.257	7.088	2.5

Reference: Concrete Reinforcing Steel Institute (CRSI) Manual of Standard Practice dated May 2003

**Figure 1. ASTM Standard Reinforcing Bars**