



Reinforcing Steel Bar Chart

The attached chart contains bar sizes that reflects both English and Metric (SI) units of the ASTM reinforcing bar standards.

Please note, 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						
ASTM STANDARD REINFORCING BARS						
BAR SIZE		NOMINAL DIMENSIONS - ROUND SECTIONS				APPROX DIAMETER OUTSIDE DEFORMATIONS (inches)
ENGLISH	METRIC	CROSS SECTIONAL AREA (in ²)	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