



STEEL REINFORCING BARS

QUICK-CARDS® A SIMPLE QUICK-REFERENCE GUIDE

Based on the CRSI
the ACI and the
ASTM Standards

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REINFORCING BARS (REBAR) BASICS & IDENTIFICATION

REINFORCING BAR (REBAR) BASICS

- Rebar is short for reinforcing bar.
- Rebar is also known as reinforcing steel and reinforcement steel.
- Rebar is a steel bar or mesh of steel wires used as a tensile device in reinforced concrete and reinforced masonry structures.
- Rebar is used to strengthen and hold the concrete in compression.
- Concrete is strong under compression, but has weak tensile strength.
- Rebar significantly increases the tensile strength of the structure.
- Rebar's surface is often patterned to form a better bond with the concrete.
 - The deformed pattern on a rebar helps concrete adhere to the rebar surface.
 - Specific pattern is not specified but spacing and the height of the "bumps" is regulated.
- Most common type of rebar is carbon steel.
 - Other readily available rebar types include stainless steel, galvanized steel, epoxy-coated, low carbon chromium, etc.

ASTM REINFORCING BARS (MIL/POUND)

Bar Size Designation	Nominal Dimensions		
	Area (in. ²)	Weight (lb/ft)	Diameter (in.)
#3	0.11	0.376	0.375
#4	0.20	0.660	0.500
#5	0.31	1.043	0.625
#6	0.44	1.502	0.750
#7	0.60	2.044	0.875
#8	0.79	2.670	1.000
#9	1.00	3.490	1.125
#10	1.27	4.302	1.270
#11	1.56	5.313	1.406
#14	3.00	10.65	2.812
#18	6.00	21.30	5.217

The current ASTM specification covers bar sizes #3 and #18 in Grade 60 and bar sizes #3, #4 and #11 in Grade 75. The current ASTM specification covers bar sizes #4 and #14 in Grade 40 and #10 through #18 are not included in this ASTM.

ASTM REINFORCING BARS (METRIC)

Bar Size Designation	Nominal Dimensions		
	Area (mm ²)	Weight (kg/m)	Diameter (mm)
A30	71	0.360	9.5
A36	129	0.584	12.7
A39	199	1.002	15.9
A43	284	1.375	19.1
A57	357	1.747	22.2
A63	509	2.479	25.4
A75	645	3.090	29.7
A92	809	3.924	36.3
A108	1006	4.907	45.0
A143	1492	6.98	63.5
A207	2471	11.24	107.3

The current ASTM specification covers bar sizes A30 and A92 in Grade 60 and bar sizes A36, A43 and A107 in Grade 75. The current ASTM specification covers bar sizes A43 and A143 in Grade 40 and #10 through #18 are not included in this ASTM.

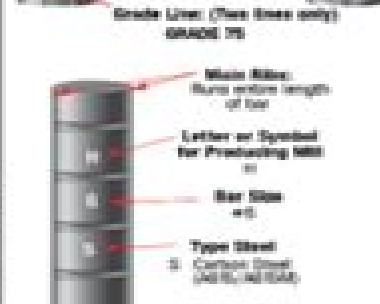
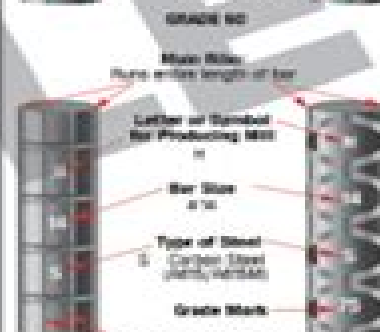
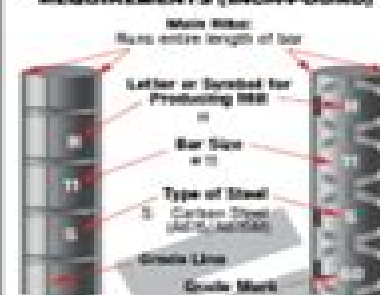
REINFORCING BAR IDENTIFICATION

- The ASTM specifications for reinforcing bars require identification marks to be rolled into the surface on one side of the bar to denote the Producer's mill designation, bar size, type of steel and minimum yield designation.
- Required Identification Markings on Reinforcing Bars:
 - 1st Marking - Point of Origin / Producing Mill**
Letter(s) or symbol(s) of producing mill
 - 2nd Marking - Size Designation**
Bar Size Number (#3 through #18, #19, #21) (#10 through #57)
 - 3rd Marking - Type of Reinforcing Steel**
Type of Steel usually either "C" for carbon steel (ASTM A615) or "W" for low-alloy steel (ASTM A706)
 - S** Carbon-Steel (A615/A615M)
 - A** Alloy-Steel (A995/A995M)
 - W** Low-Alloy Steel (A706/A706M)
 - SS** Stainless Steel (A955/A955M)
 - CS** Low-Carbon Chromium (A1005/A1005M)
 - R** or **II** Rail-Steel (A996/A996M)

4th Marking - Yield Strength Designation

- Minimum Yield Strength Designation/Grade Marking (60, 75, 80, 100, 120) or by the addition of one line (90) or two lines (70), three lines (80, 100) or four lines (70) that must be at least five deformation spaces long.
- Grade 60 bars can either have one single longitudinal line (a grade line) or the number 60 (a grade mark).
- Grade 75 bars can either have two grade lines or the grade mark 75.
- A grade line is smaller and is located between the two main longitudinal ribs which are on opposite sides of all bars noted in the U.S.
- A grade line must be continued through at least 5-deformation spaces and it may be placed on the same side of the bar as the other markings or on the opposite side.
- Grade 40 and 50 bars are required to have only the first three identification marks (no grade mark or grade line for minimum yield strength designation is required).
- Bar identification marks can be oriented vertically (as illustrated on this page) or horizontally (at 90° to those illustrated).
- Grade mark numbers must be placed within separate consecutive deformation spaces to read vertically or horizontally.

ASTM REINFORCING BAR MARKING REQUIREMENTS (MIL/POUND)



DEFORMATION GAP



REINFORCING BAR DEFORMATION REQUIREMENTS

Bar Size	Max. Average Spacing (inches)	Min. Average Height (inches)	Max. Gap (inches)
#3 (#30)	0.262	0.076	0.043
#4 (#40)	0.360	0.076	0.091
#5 (#50)	0.437	0.076	0.239
#6 (#60)	0.525	0.076	0.296
#7 (#70)	0.642	0.091	0.334
#8 (#80)	0.790	0.091	0.383
#9 (#90)	0.969	0.091	0.421
#10 (#100)	1.188	0.091	0.467
#11 (#110)	1.447	0.076	0.549
#14 (#140)	2.895	0.091	0.640
#18 (#180)	5.790	0.091	0.894

1 Deformation of rebar diameter.
2 (Note) of 0.1% of nominal perimeter. See figure for measurement of the gap.

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