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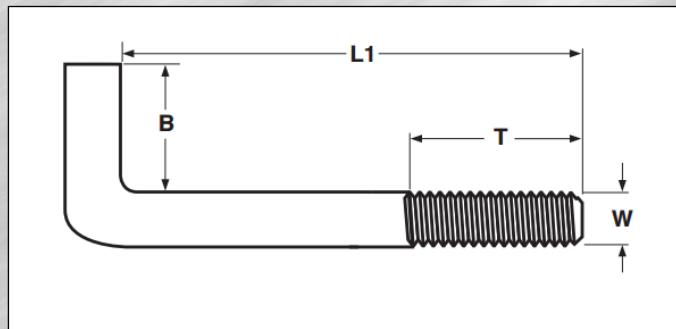
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## 90-DEGREE BENT ANCHOR BOLTS



Nominal Size x Length	L1	B	T	W
	Overall Length (Below the Bend)	Length of Bent Section	Threaded Length	Diameter
	Nom	Nom	Nom	Nom
3/8-16 x 8	7.700	0.765	1.920	0.375
3/8-16 x 10	10.050	1.300	1.890	0.375
1/2-13 x 8	7.600	1.200	1.980	0.500
1/2-13 x 10	9.500	1.200	2.130	0.500
1/2-13 x 18	17.500	1.200	4.000	0.500
3/4-10 x 12	11.650	1.900	3.800	0.750
3/4-10 x 18	17.300	2.300	4.000	0.750

**DESCRIPTION:** A headless fastener with a partially threaded shank. A portion of the top unthreaded section of the bolt is bent at a 90-degree angle. It is recommended that bolts be supplied with (a) nuts that conform to ASTM, A194 or A5663 Grade-A (Hex or Heavy Hex); and (b) washers that conform to ASTM, F436 Type 1.

**APPLICATIONS/ADVANTAGES:** Designed to anchor structural supports to concrete foundations. The bent portion (or leg) of the bolt that which is embedded into concrete to create greater resistance to forces pulling away from the concrete foundation.

**MATERIAL:** Grade-36: Low carbon steel shall conform as follows: *Carbon: 0.29% max; Manganese: (optional); Phosphorous: 0.05% max; Sulfur: 0.06% max; Copper (when specified): 0.18% min.*

**TENSILE STRENGTH:** Grade-36: 58,000—80,000 psi.

**YIELD STRENGTH:** Grade-36: 36,000 psi. min.

**PLATING:** Anchor bolts are usually supplied plain.