

**Concrete Bolts Tested to E-488**  
Uncracked Concrete, Reinforced Concrete.  
Ultimate Tension & Shear

Nominal Anchor Diameter (in.)	Minimum Embedment Depth (in.)	Minimum Concrete Compressive Strength	
		Ultimate 4,000 psi	
		(lbs.)	(lbs.)
		Tension	Shear
3/8"	2-1/2"	5,100	3,500
1/2"	3"	8,000	16,000
1/2"	4-1/2"	14,000	10,500
5/8"	3-1/4"	9,100	8,960
5/8"	5"	16,700	15,100
3/4"	4"	9,900	13,000
3/4"	5"	14,800	17,000

**Concrete Bolts Tested to E-488**  
Uncracked Concrete, Reinforced Concrete.  
Allowable Tension & Shear

Nominal Anchor Diameter (in.)	Minimum Embedment Depth (in.)	Minimum Concrete Compressive Strength	
		Allowable 4,000 psi	
		(lbs.)	(lbs.)
		Tension	Shear
3/8"	2-1/2"	1,275	875
1/2"	3"	2,000	4,000
1/2"	4-1/2"	3,500	2,625
5/8"	3-1/4"	2,275	2,240
5/8"	5"	4,175	3,775
3/4"	4"	2,475	3,250
3/4"	5"	3,700	4,250