

**TABLE 1911.2 ALLOWABLE SERVICE LOAD ON EMBEDDED BOLTS (pounds)**

BOLT DIAMETER (inches)	MINIMUM EMBEDMENT (inches)	EDGE DISTANCE (inches)	SPACING (inches)	MINIMUM CONCRETE STRENGTH (psi)					
						$f'_c = 3,500$		$f'_c = 4,000$	
						Tension	Shear	Tension	Shear
$\frac{1}{4}$	$2\frac{1}{2}$	$1\frac{1}{2}$	3			200	500	200	500
$\frac{3}{8}$	3	$2\frac{1}{4}$	$4\frac{1}{2}$			500	1,100	500	1,100
$\frac{1}{2}$	4	3	6			950	1,250	950	1,250
	4	5	6			1,500	1,700	1,550	1,750
$\frac{5}{8}$	$4\frac{1}{2}$	$3\frac{3}{4}$	$7\frac{1}{2}$			1,500	2,750	1,500	2,750
	$4\frac{1}{2}$	$6\frac{1}{4}$	$7\frac{1}{2}$			2,300	3,025	2,400	3,050
$\frac{3}{4}$	5	$4\frac{1}{2}$	9			2,250	3,560	2,250	3,560
	5	$7\frac{1}{2}$	9			3,075	4,350	3,200	4,400
$\frac{7}{8}$	6	$5\frac{1}{4}$	$10\frac{1}{2}$			2,550	4,050	2,550	4,050
1	7	6	12			3,450	4,900	3,650	5,300
$1\frac{1}{8}$	8	$6\frac{3}{4}$	$13\frac{1}{2}$			3,400	4,750	3,400	4,750
$1\frac{1}{4}$	9	$7\frac{1}{2}$	15			4,000	5,800	4,000	5,800

For SI: 1 inch = 25.4 mm, 1 pound per square inch = 0.00689 MPa, 1 pound = 4.45 N.