



ASTM A307						
Bolt Size	TPI	Proof Load (lbs)	Clamp Load (lbs)	Tightening Torque (ft lbs)		
				Galv + Wax	Galv	Plain
1/4"	20	1,145	859	2	4	4
5/16"	18	1,886	1,415	4	9	7
3/8"	16	2,790	2,093	7	16	13
7/16"	14	3,827	2,870	10	26	21
1/2"	13	5,108	3,831	16	40	32
9/16"	12	6,552	4,914	23	58	46
5/8"	11	8,136	6,102	32	79	64
3/4"	10	12,024	9,018	56	141	113
7/8"	9	15,200	11,400	83	208	166
1"	8	20,000	15,000	125	313	250
1 1/8"	7	25,200	18,900	177	443	354
1 1/4"	7	32,000	24,000	250	625	500
1 3/8"	6	38,100	28,575	327	819	655
1 1/2"	6	46,400	34,800	435	1,088	870
1 3/4"	5	68,400	51,300	748	1,870	1,496
2"	4 1/2	90,000	67,500	1,125	2,813	2,250
2 1/4"	4 1/2	117,000	87,750	1,645	4,113	3,291
2 1/2"	4	144,000	108,000	2,250	5,625	4,500
2 3/4"	4	177,480	133,110	3,050	7,626	6,101
3"	4	214,920	161,190	4,030	10,074	8,060
3 1/4"	4	255,600	191,700	5,192	12,980	10,384
3 1/2"	4	299,880	224,910	6,560	16,400	13,120
3 3/4"	4	347,760	260,820	8,151	20,377	16,301
4"	4	398,880	299,160	9,972	24,930	19,944

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