



ASTM A193 B7						
Bolt Size	TPI	Proof Load (lbs)	Clamp Load (lbs)	Tightening Torque (ft lbs)		
				Galv + Wax	Galv	Plain
1/4"	20	3,350	2,513	5	13	10
5/16"	18	5,500	4,125	11	27	21
3/8"	16	8,150	6,113	19	48	38
7/16"	14	11,150	8,363	30	76	61
1/2"	13	14,900	11,175	47	116	93
9/16"	12	19,100	14,325	67	168	134
5/8"	11	23,750	17,813	93	232	186
3/4"	10	35,050	26,288	164	411	329
7/8"	9	48,500	36,375	265	663	530
1"	8	63,650	47,738	398	995	796
1 1/8"	7	80,100	60,075	563	1,408	1,126
	8	82,934	62,201	583	1,458	1,166
1 1/4"	7	101,750	76,313	795	1,987	1,590
	8	105,006	78,754	820	2,051	1,641
1 3/8"	6	121,300	90,975	1,042	2,606	2,085
	8	129,492	97,119	1,113	2,782	2,226
1 1/2"	6	147,550	110,663	1,383	3,458	2,767
	8	156,687	117,515	1,469	3,672	2,938
1 3/4"	5	199,500	149,625	2,182	5,455	4,364
	8	218,400	163,800	-	-	4,778
2"	4 1/2	262,500	196,875	3,281	8,203	6,563
	8	290,850	218,138	-	-	7,271
2 1/4"	4 1/2	341,250	255,938	4,799	11,997	9,598
	8	373,801	280,351	-	-	10,513
2 1/2"	4	420,000	315,000	6,563	16,406	13,125
	8	466,200	349,650	-	-	14,569
2 3/4"	4	468,500	351,263	8,050	20,124	16,100
	8	515,851	386,888	-	-	17,732
3"	4	567,150	425,363	10,634	26,858	21,268
	8	618,451	463,838	-	-	23,192
3 1/4"	4	674,500	505,875	13,701	34,252	27,402
	8	730,550	547,913	-	-	29,679
3 1/2"	4	791,350	593,513	17,311	43,277	34,622
	8	851,201	638,401	-	-	37,240
3 3/4"	4	917,700	688,275	21,509	53,771	43,017
	8	982,300	736,725	-	-	46,045
4"	4	1,052,600	789,450	26,315	65,788	52,630
	8	1,121,950	841,463	-	-	56,098

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