



ASTM A449 / SAE GRADE 5						
Bolt Size	TPI	Proof Load (lbs)	Clamp Load (lbs)	Tightening Torque (ft lbs)		
				Galv + Wax	Galv	Plain
1/4"	20	2,700	2,025	4	11	8
5/16"	18	4,450	3,338	9	22	17
3/8"	16	6,600	4,950	15	39	31
7/16"	14	9,050	6,788	25	62	49
1/2"	13	12,050	9,038	38	94	75
9/16"	12	15,450	11,588	54	136	109
5/8"	11	19,200	14,400	75	188	150
3/4"	10	28,400	21,300	133	333	266
7/8"	9	39,250	29,438	215	537	429
1"	8	51,500	38,625	322	805	644
1 1/8"	7	56,450	42,338	397	992	794
1 1/4"	7	71,700	53,775	560	1,400	1,120
1 3/8"	6	85,450	64,088	734	1,836	1,469
1 1/2"	6	104,000	78,000	975	2,438	1,950
1 3/4"	5	104,500	78,375	1,143	2,857	2,286
2"	4 1/2	137,500	103,125	1,719	4,297	3,438
2 1/4"	4 1/2	178,750	134,063	2,514	6,284	5,027
2 1/2"	4	220,000	165,000	3,438	8,594	6,875
2 3/4"	4	271,150	203,363	4,660	11,651	9,321
3"	4	328,350	246,263	6,157	15,391	12,313

8531 S. Freeway Drive • Macedonia, Ohio 44056
 (800) 232 - 2659 • Fax: (330) 468-3302
www.scfastening.com