

Table 12

Specification	AS 1111 AS 2451		AS 1110 Prop. Cl. 8.8 AS 2465 Grade 5			AS 1110 Prop. Cl. 10.9 AS 2465 Grade 8		
Size	Minimum Breaking Load in Single Shear – kN ^{1 2}							
	Shank ³		Thread		Shank ³		Thread	
				Coarse	Fine		Coarse	Fine
M6	7	4	14	9		18	12	
1/4"	9	5	16	9	11	20	11	14
M8	13	8	25	16		33	21	
5/16"	13	8	26	15	17	32	19	22
3/8"	19	12	37	23	27	46	28	34
M10	20	13	39	26		51	34	
7/16"	26	16	50	31	36	63	39	45
M12	28	19	57	38		74	50	
1/2"	34	21	65	42	50	82	52	62
M16	50	36	101	72		131	94	
5/8"	53	35	102	67	80	128	84	100
3/4"	77	53	147	101	117	184	126	146
M20	79	56	163	117		204	146	
7/8"	105	73	201	140	160	251	175	200
M24	113	81	235	168		294	211	
1"	137	97	262	184	208	327	230	260
1 1/8"	173	121	332	202	237	414	289	338
M30	177	130	368	270		459	337	
M36	254	190	529	395		662	493	
1 1/2"	308	226	589	377	444	736	539	634

NOTES:

1. Tabulated values are for failure. Refer to applicable Code for permissible Design Stress. Table 13 gives guidance for AS 1250 and AS 4100 values
2. The values shown are for a single shear plane and may be compounded for multiple shear planes. Multiple bolt joints are subject to an "unbuttoning effect".

AS 1250 states that this should be considered when more than 5 bolts are aligned in the direction of the force.

AS 1511 reduces design shear capacity, 14% for joints 500-1200mm length, 43% for joints over 1200mm.

AS 4100 progressively reduces design shear capacity by 25% for joints 300-1300mm length and longer.

3. Based on nominal diameter of shank.

