

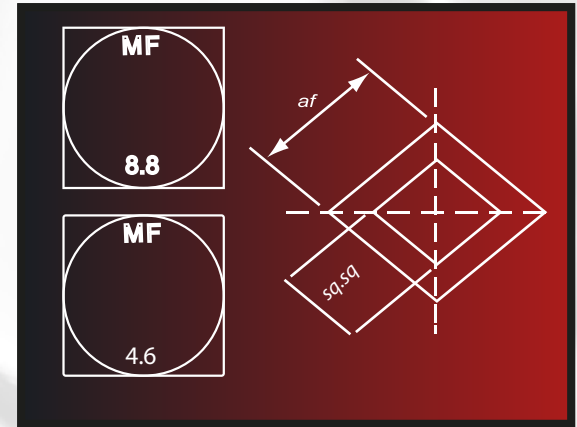
Square Sq. Holding Dwon Anchor Bolt

SQUARE BOLT

BS 7419 Grades 4.6 & 8.8 Dimensions																	
hread size <i>d</i>	Pitch of thread <i>p</i>	Thread length <i>t</i>				Diameter of unthreaded shank <i>ds</i>		Thickness Of head <i>h</i>		Radiu <i>s</i> under thread	Width across flats <i>af</i>		Depth of washer <i>s</i>		Width across Square <i>sq</i>		
		<i>a</i>		<i>b</i>		max	min	max	min		min	max	min	max	min	max	min
		max	min	max	min												
M16	2.00	122.0	116	225	200	16.70	15.30	10.75	9.25	0.6	24.00	23.16	8.75	7.25	16.70	15.30	
M20	2.50	127.5	120	225	200	20.84	19.16	13.40	11.60	0.8	30.00	29.16	10.75	9.25	20.84	19.16	
M24	3.00	133.0	124	225	200	24.84	23.16	15.90	14.10	0.8	36.00	35.00	12.90	11.10	24.84	23.16	
M30	3.50	140.5	130	225	200	30.84	29.16	19.75	17.65	1.0	46.00	45.00	15.90	14.10	30.84	29.16	
M36	4.0	148.0	136	225	200	37.00	35.00	23.55	21.45	1.0	55.00	53.80	18.90	17.10	37.00	35.00	
M42	4.5	155.5	142	225	200	43.00	41.00	27.05	24.95	1.2	65.00	63.10	22.05	19.95	43.00	41.00	
M48	5.0	163.0	148	225	200	49.00	47.00	31.05	28.95	1.6	75.00	73.10	25.05	22.95	49.00	47.00	
M56	5.5	172.5	156	225	200	57.20	54.80	36.26	33.75	2.0	85.00	82.80	29.02	26.95	57.20	54.80	
M64	6.0	182.0	164	225	200	65.20	64.80	41.25	38.75	2.0	95.00	92.80	33.25	30.75	65.20	62.80	

a For nominal lengths L < 600. B For nominal lengths L > 600.

Drawing



Product Characteristic	Standard	
General requirements	BS 7419	
Thread	BS 3643 Part 1&2 tolerance class 8g	
Mechanical & manufacture	ISO 898-1 Property classes 4.6 & 8.8	
Mechanical properties	ISO 898-1 Property classes 4.6 & 8.8	
Dimensions & tolerance	BS 7419	
Finish coating	Self colour/black	BS 7419
	Hot dip galvanized	BS 729 & BS 7371 Part 6

BS 7419 Machined Test Requirements				
Tensile Strength Min	Elongation Min	Reduction of area min	Hardness rockwell HRC	
N/mm ²	%	%	min	Max
830	12	52	23	34

For bolts > M36 testing would generally be on machined test pieces

