



# Plain Flat Round Washer BS4320 / D125A

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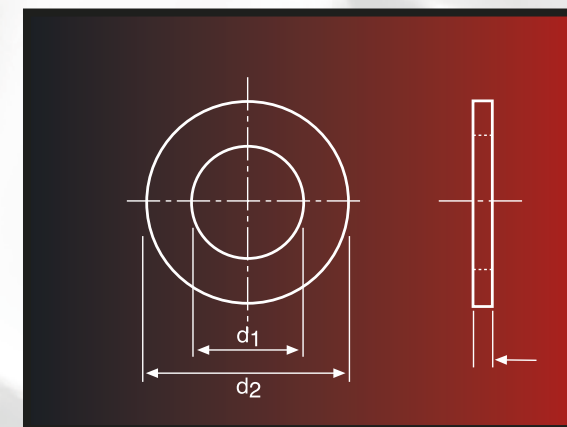
Product Code BS4320 (DIN125 / DIN 125A)

All DIN125 and BS4320 form A - C washers are manufactured to precision tolerances and are termed bright mild steel. Available as standard in BZP finish. All DIN125 / DIN125A and BS4320 form E - G washers are manufactured to wider tolerances and are termed as black standard mild steel Available in all finishes, Self- Colour, BZP, Galvanised, and Sheradised.

We stock flat washers in many types - bright steel, stainless steel, brass, copper, aluminium and fibre, to suit traditional and developing high technology industries whose requirements cover both metric and imperial dimensions flat washers conform to British, European and American standards, including BS4310, BS4320, DIN125, DIN126, DIN128 and DIN137. Not only can we offer all types of standard flat washer; we can also manufacture specials for non-standard applications. Other standard washers available from stock include: chamfer washers, mudguard repair washers, spring lock washers, and serrated lock washers.

d <sub>1</sub>	For Thread Size	d	s
1.7	M1.6	4	0.3
2.2	M2	5	0.3
2.7	M2.5	6	0.5
3.2	M3	7	0.5
3.7	M3.5	8	0.5
4.3	M4	9	0.8
5.3	M5	10	1
6.4	M6	12	1.6
7.4	M7	14	1.6
8.4	M8	16	1.6
10.5	M10	20	2
13	M12	24	2.5
15	M14	28	2.5
17	M16	30	3
19	M18	34	3
21	M20	37	3
23	M22	39	3
25	M24	44	4
28	M27	50	4
31	M30	56	4
34	M33	60	5
37	M36	66	5
40	M39	72	6
43	M42	78	7
50	M48	92	8
54	M52	98	8

## Drawing



### Mechanical Properties of Steel for Imperial and Metric D125 / D125A Flat Washers

MECHANICAL PROPERTY		PROPERTY CLASS								
		4.8	5.6	5.8	6.8	8.8		9.8	10.9	12.9
						Up to M16	Over M16			
Tensile Strength (R <sub>m</sub> , N/mm <sup>2</sup> )	nom.	400	500		600	800		900	1000	1200
	min	420	500	520	600	800	830	900	1040	1220
Vickers Hardness	min	135	155	160	190	250	255	290	320	385
	max	250				320	336	360	380	435
Brinell Hardness	min	124	147	152	181	319	242	266	295	353
	max	238				385	319	342	363	412
Rockwell Hardness	Min	HR	71	79	82	89	-			
		HRC	-				20	23	28	32
	Max	HR	95			99	-			
		HRC	-				32	34	37	39
Yield Stress ReL. N/mm <sup>2</sup>	nom	320	300	400	480	-				
	min	340	300	420	480	-				
Stress at permanent set Limit N/ mm <sup>2</sup>	nom	-				640		720	900	1080
	min	-				640	660	720	940	1100