

Self-Tapping Screws



Self Tapping Screws

Gimlet Point

Gimlet point self-tapping screws have various references depending on the standard.

BS 4174 referred to as **Type AB**

DIN 7970 referred to as **Type B**

ISO 1478 referred to as **Type C**



Self Tapping Screws

Blunt Point

Blunt point self-tapping screws have various references depending on the standard.

BS 4174 referred to as **Type B**

DIN 7970 referred to as **Type BZ**

ISO 1478 referred to as **Type F**

Manufacturing Standards for Thread Dimensions & Mechanical Properties

THREAD DIMENSIONS										
GAUGE	METRIC REF	T.P.I.	MAJOR DIA				MINOR DIA			
			MAX	MIN			MAX	MIN		
			BS, DIN, ISO	BS	DIN	ISO	BS, DIN, ISO	BS	DIN	ISO
2	2.2	32	2.24	2.13	2.10	2.10	1.63	1.52	1.52	1.52
4	2.9	24	2.90	2.79	2.76	2.76	2.18	2.08	2.08	2.08
6	3.5	20	3.53	3.43	3.35	3.35	2.64	2.51	2.51	2.51
7	3.9	19	3.91	3.78	3.73	3.73	2.92	2.77	2.77	2.77
8	4.2	18	4.22	4.09	4.04	4.04	3.10	2.95	2.95	2.95
10	4.8	16	4.80	4.65	4.62	4.62	3.58	3.43	3.43	3.43
12	5.5	14	5.46	5.31	5.28	5.28	4.17	3.99	3.99	3.99
14	6.3	14	6.25	6.10	6.03	6.03	4.88	4.70	4.70	4.70

MECHANICAL PROPERTIES	
GAUGE	MIN TORSIONAL LOAD NM
2	0.45
4	1.47
6	2.70
7	3.55
8	4.40
10	6.30
12	9.90
14	16.00

RECESS SIZE			
GAUGE	CRUCIFORM	T-DRIVE®	
		PAN	CSK
2	1	T8	-
4	1	T10	T8
6	2	T15	T10
7	2	T15	T15
8	2	T20	T20
10	2	T25	T25
12	3	T27	T25
14	3	T30	T30

Manufacturing Standards for Length Tolerances

LENGTH TOLERANCES (BS4174)									
LENGTH		TYPE AB				TYPE B			
MM NOM	INCH NOM	MAX		MIN		MAX		MIN	
		MM	INCH	MM	INCH	MM	INCH	MM	INCH
3.2	1/8	3.78	0.149	2.58	0.102	3.18	0.125	2.58	0.102
4.5	3/16	5.36	0.211	4.16	0.164	4.76	0.188	4.16	0.164
6.5	1/4	7.10	0.280	5.60	0.220	6.35	0.250	5.60	0.220
7.9	5/16	8.73	0.342	7.10	0.282	7.94	0.312	7.19	0.282
9.5	3/8	10.27	0.404	8.77	0.345	9.52	0.375	8.77	0.345
13	1/2	13.60	0.535	11.80	0.465	12.70	0.500	11.80	0.465
16	5/8	16.78	0.661	14.98	0.590	15.88	0.625	14.98	0.590
19	3/4	20.10	0.791	18.00	0.709	19.05	0.750	18.00	0.709
22	7/8	23.27	0.916	21.17	0.833	22.22	0.875	21.17	0.833
25	1	26.45	1.041	24.35	0.959	25.40	1.000	24.35	0.959
32	1 1/4	33.00	1.300	30.50	1.201	31.75	1.250	30.50	1.201
38	1 1/2	39.35	1.549	36.85	1.451	38.10	1.500	36.85	1.451
45	1 3/4	45.70	1.799	43.20	1.701	44.45	1.750	43.20	1.701
50	2	52.30	2.059	49.30	1.941	50.80	2.000	49.30	1.941

LENGTH TOLERANCES (DIN 267)				
LENGTH	TYPE B		TYPE BZ	
	MAX	MIN	MAX	MIN
4.5	5.10	3.90	4.5	3.9
6.5	7.10	5.90	6.5	5.75
9.5	10.25	8.75	9.5	8.75
13	13.90	12.10	13.0	12.1
16	16.90	15.10	16.0	15.10
19	20.05	17.95	19.0	17.95
22	23.05	20.95	22.0	20.95
25	26.05	23.95	25.0	23.95
32	33.25	30.75	32.0	30.75
38	39.25	36.75	38.0	36.75
45	46.25	43.75	45.0	43.75
50	51.25	48.75	50.0	48.50

LENGTH TOLERANCES (ISO 4759/1)				
LENGTH	TYPE C		TYPE F	
	MAX	MIN	MAX	MIN
4.5	5.3	3.7	4.5	3.7
6.5	7.3	5.7	6.5	5.7
9.5	10.3	8.7	9.5	8.7
13	13.8	12.2	13.0	12.2
16	16.8	15.2	16.0	15.2
19	19.8	18.2	19.0	18.2
22	22.8	21.2	22.0	20.7
25	25.8	24.2	25.0	23.7
32	33.3	30.7	32.0	30.7
38	39.3	36.7	38.0	36.7
45	46.3	43.7	45.0	43.5
50	51.3	48.7	50.0	48.5

Dimensions in Millimetres

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