

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

## ISO RECOMMENDATION R 1481

SLOTTED PAN HEAD TAPPING SCREWS

DIMENSIONS IN MILLIMETRES AND INCHES

1st EDITION

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### DIMENSIONS IN MILLIMETRES AND INCHES

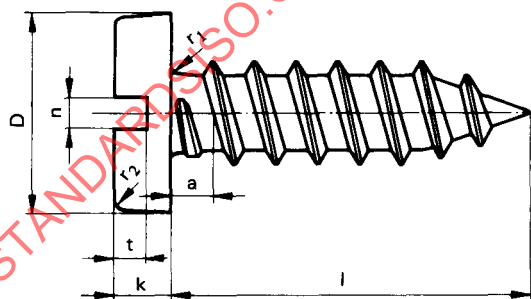
#### 1. SCOPE

This ISO Recommendation specifies dimensions in millimetres and inches of slotted pan head screws, and provides a system of standard lengths, i.e. recommended combinations of thread size and nominal length.

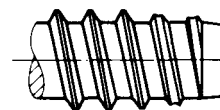
#### 2. DIMENSIONS

Principal dimensions are given in the Table opposite. For thread dimensions and thread ends see ISO Recommendation R 1478, *Tapping screw thread — Dimensions in millimetres and inches*.

Nominal sizes of series I should be preferred.



Cone end (type AB)



$$a \leq P \text{ (Pitch)}$$

Flat end (type B)

TABLE - Principal dimensions

Dimensions in millimetres and inches

Nominal size		Series I			2		4		6		8	10		14( $\frac{1}{4}$ )	
		Series II	0	1		3		5		7			12		16( $\frac{5}{16}$ )
<i>D</i>	max.	mm	2.95	3.61	4.24	4.90	5.56	6.22	6.86	7.52	8.18	9.47	10.80	12.50	15.62
		in	0.116	0.142	0.167	0.193	0.219	0.245	0.270	0.296	0.322	0.373	0.425	0.492	0.615
	min.	mm	2.64	3.30	3.94	4.57	5.21	5.87	6.50	7.14	7.77	9.07	10.34	12.01	15.09
		in	0.104	0.130	0.155	0.180	0.205	0.231	0.256	0.281	0.306	0.357	0.407	0.473	0.594
<i>k</i>	max.	mm	0.99	1.17	1.35	1.52	1.73	1.90	2.08	2.26	2.44	2.79	3.18	3.66	4.52
		in	0.039	0.046	0.053	0.060	0.068	0.075	0.082	0.089	0.096	0.110	0.125	0.144	0.178
	min.	mm	0.79	0.97	1.14	1.30	1.47	1.65	1.83	2.01	2.16	2.51	2.84	3.30	4.11
		in	0.031	0.038	0.045	0.051	0.058	0.065	0.072	0.079	0.085	0.099	0.112	0.130	0.162
<i>n</i>	min.	mm	0.41	0.48	0.58	0.69	0.79	0.89	0.99	0.99	1.14	1.27	1.42	1.63	1.83
		in	0.016	0.019	0.023	0.027	0.031	0.035	0.039	0.039	0.045	0.050	0.056	0.064	0.072
	max.	mm	0.58	0.66	0.79	0.89	0.99	1.09	1.22	1.22	1.37	1.52	1.70	1.90	2.13
		in	0.023	0.026	0.031	0.035	0.039	0.043	0.048	0.048	0.054	0.060	0.067	0.075	0.084
<i>t</i>	min.	mm	0.36	0.46	0.56	0.66	0.76	0.86	0.94	1.04	1.14	1.35	1.55	1.78	2.16
		in	0.014	0.018	0.022	0.026	0.030	0.034	0.037	0.041	0.045	0.053	0.061	0.070	0.085
	max.	mm	0.56	0.69	0.79	0.91	1.02	1.14	1.27	1.37	1.47	1.73	1.96	2.21	2.69
		in	0.022	0.027	0.031	0.036	0.040	0.045	0.050	0.054	0.058	0.068	0.077	0.87	0.106
<i>r</i> <sub>1</sub>	mm	0.23	0.28	0.33	0.38	0.43	0.48	0.53	0.58	0.63	0.71	0.81	0.94	1.19	
	in	0.009	0.011	0.013	0.015	0.017	0.019	0.021	0.023	0.025	0.028	0.032	0.037	0.047	
<i>r</i> <sub>2</sub>	max.	mm	0.5	0.6	0.8	1	1.2	1.2	1.4	1.4	1.6	1.8	2	2.5	3.2
	in	0.02	0.024	0.031	0.04	0.047	0.047	0.055	0.055	0.063	0.071	0.079	0.098	0.125	
Nominal length <i>l</i>			Standard lengths												
mm		in													
3.2		$\frac{1}{8}$													
4.5		$\frac{3}{16}$													
6.5		$\frac{1}{4}$													
9.5		$\frac{3}{8}$													
13		$\frac{1}{2}$													
16		$\frac{5}{8}$													
19		$\frac{3}{4}$													
22		$\frac{7}{8}$													
25		1													
32		1 $\frac{1}{4}$													
38		1 $\frac{1}{2}$													
45		1 $\frac{3}{4}$													
50		2													

The standard lengths are given between the stepped solid lines (———).

The upper stepped solid line (———) is the limit of the minimum practical length for both types.

Flat end tapping screws (type B) with lengths above the stepped broken line (— — —) are short screws and those below this stepped line are long screws, in accordance with ISO Recommendation R 1478.