

Cross recessed raised countersunk head tapping screws

DIN 7982

Senk-Blechschraben mit Kreuzschlitz

Supersedes December 1972 edition.

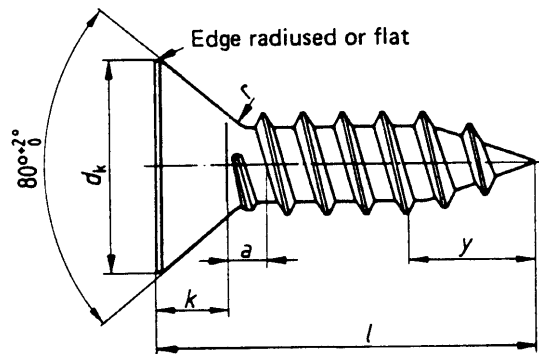
In keeping with current practice in standards published by the International Organization for Standardization (ISO), a comma has been used throughout as the decimal marker.

See Explanatory notes for connection with the international standards published by the International Organization for Standardization (ISO).

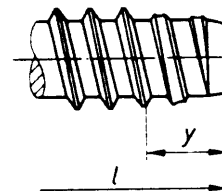
Dimensions in mm

1 Dimensions

Type C, with cone end
(previously type B)

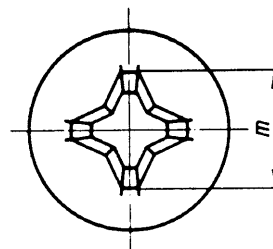


Type F, with flat end
(previously type BZ)

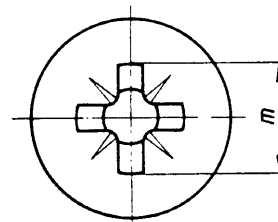


Other dimensions as in left-hand illustration.

Cross recess type H¹⁾



Cross recess type Z¹⁾



¹⁾ Should the type symbol H or Z for the cross recess be absent in the designation, e.g. on existing documents based on previous editions of this standard, then cross recess type H shall be applicable. In future, the symbol identifying the cross recess type shall always be specified for new designs and in purchase order documents (see clause 3).

Continued on pages 2 to 5

Thread size		ST 2,2	ST 2,9	ST 3,5	(ST 3,9)	ST 4,2	ST 4,8	ST 5,5	ST 6,3			
P ¹⁾		0,8	1,1	1,3	1,4	1,4	1,6	1,8	1,8			
a	max	0,8	1,1	1,3	1,4	1,4	1,6	1,8	1,8			
d_k	max. = nominal dimension d_k	4,3	5,5	6,8	7,5	8,1	9,5	10,8	12,4			
	min	4	5,2	6,44	7,14	7,74	9,14	10,37	11,97			
k	≈	1,3	1,7	2,1	2,3	2,5	3	3,4	3,8			
r	max.	0,8	1,1	1,4	1,5	1,6	1,9	2,1	2,4			
No.		1		2				3				
Cross recess	type H	m	≈	2,5	3	4,2	4,6	4,7	5,1	6,8	7,1	
		penetration depth	min	1,02	1,4	1,62	2,03	2,11	2,59	2,95	3,33	
			max.	1,32	1,7	2,12	2,53	2,62	3,1	3,53	3,91	
	type Z	m	≈	2,4	2,8	4	4,2	4,4	5	6,3	7	
		penetration depth	min.	1,1	1,48	1,6	1,85	2,05	2,64	2,72	3,38	
			max.	1,35	1,73	2,06	2,31	2,51	3,1	3,18	3,84	
y max.		Type C		2	2,6	3,2	3,5	3,7	4,3	5	6	
		Type F		1,6	2,1	2,5	2,7	2,8	3,2	3,6	3,6	
l Type C F min. max.					Mass (7,85 kg/dm ³), in kg per 1000 units ≈							
Nominal dimension												
4,5	3,7	5,3	3,7	4,5	0,1							
6,5	5,7	7,3	5,7	6,5	0,14	0,28						
9,5	8,7	10,3	8,7	9,5	0,2	0,35	0,54	0,66	0,77	1,1		
13	12,2	13,8	12,2	13	0,27	0,48	0,72	0,88	1,02	1,45	2,11	2,53
16	15,2	16,8	15,2	16	0,33	0,58	0,87	1,07	1,23	1,75	2,49	3,07
19	18,2	19,8	18,2	19		0,69	1,02	1,26	1,44	2,05	2,87	3,61
22	21,2	22,8	20,2	22			1,17	1,45	1,65	2,35	3,26	4,15
25	24,2	25,8	23,2	25			1,32	1,64	1,86	2,65	3,65	4,69
32	30,7	33,3	30,8	32					2,35	3,35	4,56	5,95
38	36,7	39,3	36,7	38							5,43	7,03
45	43,7	46,3	43,5	45								
50	48,7	51,3	48,5	50								
Bracketed sizes should be avoided as far as possible. As a general rule, the tapping screws are manufactured in the sizes for which the mass has been given (for guidance only). ¹⁾ P = pitch of thread.												