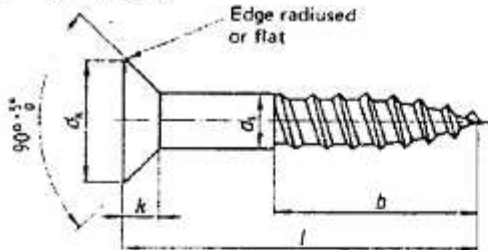


Cross recessed countersunk head wood screws

Dimensions in mm

1 Dimensions



Cross recess type H

Cross recess type Z



$b \geq 0.6 l$

Thread size		(2)	2,5	3	3,5	4	4,5	5	(5,5)	6	(7)	(8)	
d_s	max. = nominal dimension d_s	2	2,5	3	3,5	4	4,5	5	5,5	6	7	8	
	min	1,8	2,1	2,6	3,02	3,52	4,02	4,52	5,02	5,52	6,42	7,42	
d_k	Nominal dimension	3,8	4,7	5,6	6,5	7,5	8,3	9,2	10,2	11	12,5	14	
	max	4,16	5,08	5,96	6,95	7,95	8,75	9,65	10,75	11,55	13,05	15,05	
	min	3,42	4,32	5,22	6,05	7,05	7,85	8,75	9,65	10,45	11,95	13,95	
k	max	1,2	1,5	1,65	1,93	2,2	2,35	2,5	2,75	3	3,5	4	
Cross recess	No.		1		2			3		4			
	type H	m	n	2,7	2,9	3,9	4,4	4,6	4,8	6,2	6,6	6,8	8,7
		penetration min. depth	max.	1,25	1,5	1,4	1,9	2,1	2,29	2,31	2,8	2,95	3,9
	type Z	m	n	2,8	3	4	4,2	4,4	5	6,1	6,3	7	8,5
		penetration min. depth	max.	1,48	1,76	1,6	1,85	2,05	2,64	2,46	2,72	3,38	3,86
		max.	1,73	2,01	2,06	2,31	2,51	3,1	2,92	3,18	3,84	4,32	
Nominal dimension	l	Mass (7,85 kg/dm ³), in kg per 1000 units ≈											
	min	max											
10	9,25	10,75	0,37	0,6	0,79								
12	11,1	12,9	0,43	0,7	0,91	1,18							
(14)	13,1	14,9											
16	15,1	16,9	0,55	0,88	1,17	1,49	1,85	2,31					
(18)	17,1	18,9											
20	19	21	0,67	1,06	1,43	1,79	2,22	2,78		4,12			
25	24	26											
30	29	31		1,3	1,73	2,17	2,71	3,37		4,96			
35	37,75	36,25		1,54	2,04	2,35	3,19	4		5,8			
40	38,75	41,25		1,77	2,35	2,94	3,68	4,55		6,63			
45	43,75	46,25		2,01	2,66	3,22	4,17	5,14		7,46			
50	48,75	51,25			2,98	3,66	4,65	5,73		8,29			
60	58,5	61,5				4,05	5,14	6,32		9,12			
70	68,5	71,5				4,81	6,11	7,54		10,8			
80	78,5	81,5						8,72		12,5			
								9,9		14,3			

Lengths above 80 mm shall be graded in steps of 10 mm.
 Bracketed sizes should be avoided as far as possible.
 The wood screws are, as a general rule, manufactured in the sizes for which the mass has been given (for guidance only).

2 Technical delivery conditions

Material	Steel	Non-ferrous metals
General requirements	In accordance with DIN 267 Part 1.	
Threads and thread ends	In accordance with DIN 7998.	
Cross recesses	In accordance with DIN 7962.	
Material	St = steel (Grade at the manufacturer's discretion)	CuZn (previously Ms) = copper-zinc alloy; Al Leg = aluminium alloy. (Grade at manufacturer's discretion.) Other materials are subject to agreement.
Permissible dimensional deviations and deviations of form	Product grade C (previously design g) in accordance with ISO 4759 Part 1 ¹⁾ .	
Surface finish	As processed. DIN 267 Part 9 shall apply to electroplating. Other types of surface protection shall be subject to agreement.	
Acceptance inspection	In accordance with DIN 267 Part 5.	
¹⁾ ISO 4759 Part 1 applies at present only to screws with ISO metric screw thread. The permissible deviations specified in the above standard have been adopted correspondingly for wood screws. The geometrical tolerances specified in ISO 4759 Part 1 have also been adopted for wood screws, as appropriate.		

3 Designation

Designation of a cross recessed countersunk head wood screw with thread size 4, length l (nominal dimension) = 20 mm, in steel (St) with type H cross recess¹⁾:

Wood screw DIN 7997 – 4 × 20 – St – H