Hexagon head wood screws

DIN 571

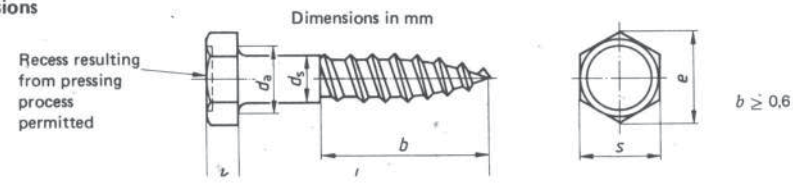
Sechskant-Holzschrauben mit Schlitz

Supersedes March 1975 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.

1 Dimensions

Dimensions in mm



Thread size		4	5	6	(7)	8	10	12	16	20
d_s	max. = nominal size	4	5	6	7	8	10	12	16	20
	min.	3,52	4,52	5,52	6,42	7,42	9,42	11,3	15,3	19,3
d_a	max.	5	6	7,2	8,2	10,2	12,2	15,2	19,2	24,4
k	Nominal size	2,8	3,5	4	5	5,5	7	8	10	13
	max.	3,1	3,88	4,38	5,38	5,88	7,45	8,45	10,45	13,90
	min.	2,5	3,13	3,63	4,63	5,13	6,55	7,55	9,55	12,1
s	Nominal size	7	8	10	12	13	17	19	24	30
	max.	7	8	10	12	13	17	19	24	30
	min.	6,64	7,64	9,64	11,57	12,57	16,57	18,48	23,16	29,16
e	min.	7,50	8,63	10,89	13,07	14,2	18,72	20,88	26,17	32,95

Nominal size	l min.	l max.	Mass (7,85 kg/dm³), in kg per 1000 units, approximately								
16	15,1	16,9	1,71	2,92							
20	18,95	21,05	2,01	3,42	5,02						
25	23,95	26,05	2,41	4,02	5,82		11,5				
30	28,95	31,05	2,81	4,62	6,62		12,9	23,6			
35	33,75	36,25	3,11	5,12	7,42		14,2	25,8	36,2		
40	38,75	41,25	3,51	5,82	8,22		15,6	28,0	39,2		
45	43,75	46,25		6,43	8,94		16,9	30,0	42,1		
50	48,75	51,25		7,03	9,64		18,2	32,1	45,4	84,1	
55	53,5	56,5			10,5		19,6	34,3	48,6	89,7	
60	58,5	61,5			11,2		20,9	36,5	51,8	94,9	165
65	63,5	66,5					22,2	38,5	54,7	99,5	174
70	68,5	71,5					23,6	40,7	57,8	107	182
75	73,5	76,5					25,0	42,9	61,0	112	192
80	78,5	81,5					26,5	45,2	64,5	118	201
90	88,25	91,75					29,4	49,9	71,0	130	220
100	98,25	101,75					32,0	54,0	77,1	141	238
110	108,25	111,75							83,4	152	253
120	118,25	121,75							89,5	163	275
130	128,0	132,0								175	293
140	138,0	142,0								187	317
150	148,0	152,0								198	328
160	158,0	162,0								209	348
170	168,0	172,0									366
180	178,0	182,0									385
190	187,7	192,3									404
200	197,7	202,3									421

Lengths above 200 mm shall be graded in 20 mm steps.
Bracketed sizes shall be avoided if possible.
Wood screws are normally manufactured in sizes for which mass values have been specified.
These values are for guidance only.

Continued on page 2

2 Technical delivery conditions

Material	Steel	Stainless steel
General requirements	As specified in DIN 267 Part 1.	
Details of screw thread and thread end	As specified in DIN 7998.	
Material	St = steel (grade at the manufacturer's discretion).	CuZn = copper-zinc alloy. Al = aluminium alloy. (grade at the manufacturer's discretion)
	Other materials are subject to agreement.	
Permissible deviations, geometrical tolerances	Product grade C as specified in ISO 4759 Part 1[1]) (previously type g)	
Surface finish	As processed. DIN 267 Part 9 shall apply with regard to electroplating (a different type of electroplating being subject to agreement).	
Acceptance inspection	As specified in DIN 267 Part 5.	

[1]) ISO 4759 Part 1 applies only for screws with ISO metric screw thread. However, the permissible deviations and the geometrical tolerances specified in ISO 4759 Part 1 have analogously been adopted for wood screws.

3 Designation

Designation of a size 4 hexagon head wood screw of nominal length l = 20 mm, made of steel (St):

Wood screw DIN 571 – 4 × 20 – St

The DIN 4000 – 2 – 1 tabular layout of article characteristics shall apply to screws conforming to this standard.

Standards referred to

DIN 267 Part 1	Fasteners; technical delivery conditions; general requirements
DIN 267 Part 5	Fasteners; technical delivery conditions; acceptance inspection (modified version of ISO 3269, 1984 edition)
DIN 267 Part 9	Fasteners; technical delivery conditions; components with electroplated coatings
DIN 4000 Part 2	Tabular layouts of article characteristics for bolts, studs and nuts
DIN 7998	Threads and thread ends for wood screws
ISO 4759 Part 1	Tolerances for fasteners; bolts, screws and nuts with thread diameters between 1,6 (inclusive) and 150 mm (inclusive) and product grades A, B and C

Previous editions

DIN 571: 03.23, 07.27, 10.28, 01.41, 03.63, 12.67, 03.75.

Amendments

The following amendments have been made in comparison with the March 1975 edition.

a) Type g has been replaced by product grade C.

b) The content of the standard has been revised.

International Patent Classification

F 16 B 23/00

F 16 B 25/00