

## Hexagon head wood screws

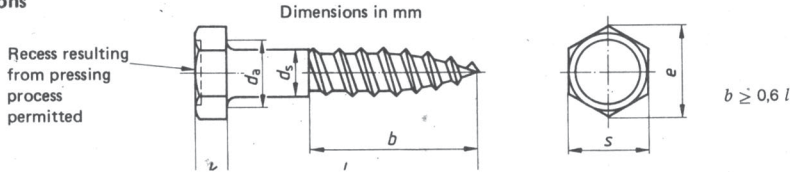
**DIN**  
**571**

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



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
	Nominal size	2,8	3,5	4	5	5,5	7	8	10	13
$k$	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
$s_w$	Nominal size	7	8	10	12	13	17	19	24	30
	max.	7	8	10	12	13	17	19	24	30
$s$	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	$l$		Mass (7,85 kg/dm <sup>3</sup> ), in kg per 1000 units, approximately																	
	min.	max.																		
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.

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## 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 <sup>1)</sup> (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.	
<sup>1)</sup> 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.

- Type g has been replaced by product grade C.
- The content of the standard has been revised.

### International Patent Classification

F 16 B 23/00

F 16 B 25/00