BS 1202-2: 1974

Specification for

Nails —

Part 2: Copper nails

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Amalgamated Society of Woodworkers

British Furniture Manufacturers' Federated Association

Department of the Environment, Building Research Establishment (Princes Risborough Laboratory)

Engineering Industries Association

Institute of Iron and Steel Wire Manufacturers

Steel Nail Association

Timber Research and Development Association

Wire Products Association

Individual manufacturers

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Amendments issued since publication

Date of issue	Comments
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Foreword

This British Standard is published in the following separate Parts:

- Part 1: Steel nails;
- Part 2: Copper nails;
- Part 3: Aluminium nails.

This Part of the standard has been prepared under the authority of the Hardware and Ironmongery Industry Standards Committee. It is expressed solely in metric units and relates to 6 types of copper nails at present in common use and to the roves manufactured for use with the two types of copper boat nails specified; it is thus not confined to nails for buildings. No attempt has been made to specify "specials".

For the benefit of those not conversant with metric diameters of nails, each table in this standard includes a separate column showing the nearest former standard wire gauge (s.w.g.) numbers. These do not form part of the specification. Their inclusion is only intended to be temporary and is planned to be reconsidered by 31 December 1976.

Inch equivalents, if required, may be determined from BS 350, "Conversion factors and tables".

This Part of the standard replaces BS 1202-2:1966 which was prepared at the request of nail users and manufacturers with the approval of the Code of Practice Drafting Committees responsible for CP 142, "Slating and tiling' and CP 143, "Sheet roof and wall coverings".

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

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Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 4, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

1 Scope

1.1 This Part of the standard specifies requirements, including dimensions and finish, for the following types of copper nails and roves.

 ${
m NOTE}$ The nearest former s.w.g. members are included in a separate column in each table for convenience only. They do not form part of the specification.

1) Round lost head nails

2) Clout and shingle nails (plain or jagged shank): clout nails are also known as slate, tile or felt nails

3) Extra large head felt nails

4) Flat head countersunk and rosehead square shank boat nails (round or diamond point)

5) Cut clout nails: also known as cut slate nails. **1.2** The types of nail are illustrated in the diagrams accompanying Table 1 to Table 5.

2 Materials

2.1 Wire nails. Wire nails shall be made from copper wire.

2.2 Cut nails. Cut nails shall be made from copper sheet or strip.

2.3 Alloys. If agreed between purchaser and supplier, nails may also be manufactured from alloys containing copper, such as copper-silicon or nickel-copper.

2.4 Roves. Roves shall be made from copper sheet or strip.

3 Workmanship

3.1 Nails shall be straight and true in shape, and free from excessive burrs and flashes which may be detrimental to their use.

3.2 The heads of nails when formed shall be of such a design and thickness as to withstand normal driving.

4 Finish

The finish of wire nails shall be bright; that of cut nails shall be in the "as rolled" condition except for those sides which are made bright by the cutting process. Nails shall be clean and free from excessive oxidation.

5 Dimensions and tolerances

5.1 Wire nails and cut floor brads. The dimensions of wire nails shall be in accordance with Table 1 to Table 4 subject to the following tolerances:

1) Head diameter:

Round wire nails: \pm 5 % (except for extra large head felt nails, which have a minimum head diameter of 11 mm). 11 mm).

Square section wire nails: \pm 10 %.

2) Shank diameter (dimension D):

Round wire nails: when diameter is less than 2.65 mm, \pm 0.03 mm; when diameter is 2.65 mm and more, \pm 0.05 mm.

Square section wire nails: all dimensions $D, \pm 0.07$ mm.

3) Length: when diameter is less than 2.65 mm, \pm 0.5 mm; when diameter is 2.65 mm and more, \pm 0.8 mm.

5.2 Cut slate or clout nails. The dimensions of cut slate or clout nails shall be in accordance with Table 5. No tolerances are specified.

5.3 Roves. The dimensions of roves shall be in accordance with Table 6. No tolerances are specified.

6 Inspection

If the purchaser wishes to inspect the nails or roves at the supplier's works he shall notify the supplier at the time of placing the order.

7 Weights

The approximate number of nails and roves per kilogram is given, for general guidance only, in Table 1 to Table 6.

8 Designation for ordering

8.1 When designating copper nails in an enquiry or an order, the following information shall be given.

1) Quantity required, by weight

- 2) Type
- 3) Length in millimetres
- 4) Diameter or dimension D in millimetres
- 5) British Standard number
- 6) If roves are required
- 8.2 Examples:

1) 56 kg round lost head nails, 50 mm \times 3.00 mm, to BS 1202-2.

2) 100 kg flat head countersunk square shank boat nails (round point), 50 mm \times 3.35 mm, to BS 1202-2, with roves.

9 Certificate of compliance

If required by the purchaser, the supplier shall certify that nails and roves comply with the requirements of this standard.

	I UNIC I	Dimension	
Length L	Shank diameter D	Approx. no. of nails per kg	
mm 65 65 50 50 40 40	mm 3.75 3.35 3.35 3.00 2.65 2.36	$ 178 \\ 194 \\ 292 \\ 308 \\ 474 \\ 554 $	

Table 1 — Dimensions and approximate count of round lost head nails

 $\frac{12}{13}$

Nearest

former s.w.g.

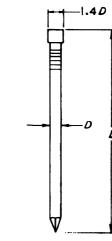
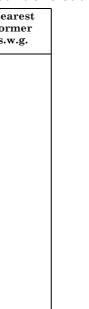
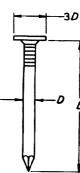


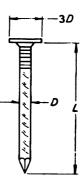
Table 2 — Dimensions and approximate count of clout nails (plain or jagged shank)

Length L	Shank diameter D	Approx. no. of nails per kg	
mm	mm		
65	3.75	170	
65	3.35	195	
50	3.35	241	
50	3.00	276	
50	2.65	327	
45	3.35	308	
45	3.00	366	
45	2.65	456	
40	3.35	335	
40	3.00	398	
40	2.65	460	
40	2.36	553	
30	3.35	448	
30	3.00	550	
30	2.65	621	
30	2.36	748	
25	2.65	740	
20	2.65	920	





Plain shank



Jagged shank

(To have small fillet at junction of head and shank)

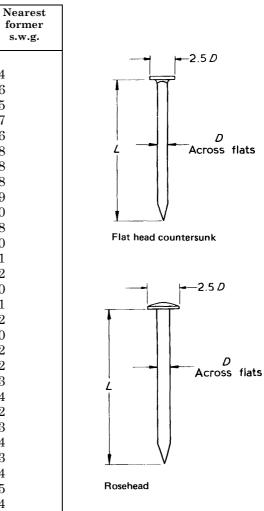
Length L	Shank diameter D	Approx. no. of nails per kg	Nearest former s.w.g.	— ———————————————————————————————————
mm 25 25 20 20 15 13	mm 3.35 3.00 3.35 3.00 3.00 3.00 3.00	440 517 544 627 691 880	10 11 10 11 11 11	

Table 3 — Dimensions and approximate count of extra large head felt nails

Table 4 — Dimensions and approximate count of flat head countersunk and rosehead square shank boat nails (round or diamond point)

> $\mathbf{6}$ $\mathbf{5}$

square shan				
Length L	Shank dimension D	Approx. no. of nails per kg		
mm	mm			
150	6.00	22		
150	5.00	33		
125	5.60	31		
125	4.50	44		
100	5.00	46		
100	4.00	66		
90	4.00	81		
75	4.00	88		
75	3.75	108		
75	3.35	132		
65	4.00	103		
65	3.35	163		
65	3.00	198		
65	2.65	246		
50	3.35	193		
50	3.00	255		
50	2.65	308		
45	3.35	220		
45	2.65	330		
40	2.65	412		
40	2.36	494		
40	2.00	688		
30	2.65	490		
30	2.36	659 869		
30 95	2.00	862		
25 25	2.36	774		
25 25	2.00	939		
25 20	1.80	1 336		
20 20	2.00	1 237		
20	1.80	1 740		



Length L	Shank diameter D	Approx. no of nails per kg
mm 50 45 40 30 25	mm 3.00 2.65 2.65 2.36 2.00	$275 \\ 330 \\ 440 \\ 627 \\ 1 298$

Table 5 — Dimensions and approximate count of cut clout nails (also known as cut slate nails)

Nearest former s.w.g.

Table 6 — Dimensions and approximate count of roves

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Suitable for nails of shank diameter	Outside diameter D	Approx. no. of roves per kg	Thickness of material	Neares former s.w.g.
mm	mm		mm	
1.80	6.4	$3\ 520$	0.9	15
2.00	7.9	$2\ 310$	1.0	14
2.36	9.5	1 408	1.0	13
2.65	11.1	946	1.2	12
3.00	11.1	946	1.2	11
3.35	12.7	682	1.2	10
3.75	14.3	495	1.4	9
4.00	15.9	385	1.4	8
5.00	19.1	265	1.6	6

0	

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