

# Fences —

## **Part 5: Specification for close-boarded fences and wooden palisade fences**

ICS 91.090

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# Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Sector Committee for Building and Civil Engineering to Technical Committee B/201, Fences, upon which the following bodies were represented:

- Association of Security Consultants
- British Precast Concrete Federation Ltd.
- Countryside Commission
- County Surveyors' Society
- Department of the Environment, Transport and the Regions (represented by the Building Research Establishment)
- Department of the Environment, Transport and the Regions (Highways Agency)
- European Fencing Industry Association
- Fencing Contractors Association
- Forestry Commission
- National Farmers' Union
- National Fencing Training Authority
- Security Facilities Executive
- Timber Trade Federation
- UK Steel Association
- United Kingdom Forest Products Association
- Wire Products Association

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- British Wood Preserving and Damp-proofing Association
- National Trust
- Ramblers Association
- Timber Research and Development Association

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## Foreword

This part of BS 1722 has been prepared by Technical Committee B/201. It supersedes BS 1722-5:1986 and BS 1722-6:1986, which are withdrawn.

BS 1722 is published in parts as follows:

- *Part 1: Specification for chain link fences;*
- *Part 2: Specifications for rectangular wire mesh and hexagonal wire netting fence<sup>1)</sup>;*
- *Part 3: Specification for strained wire fences<sup>1)</sup>;*
- *Part 4: Specification for cleft chestnut pale fences;*
- *Part 5: Specification for close-boarded fences and wooden palisade fences;*
- *Part 7: Specification for wooden post and rail fences;*
- *Part 8: Specification for mild steel (low carbon steel) continuous bar fences and hurdles;*
- *Part 9: Specification for mild steel (low carbon steel) fences with round or square verticals and flat horizontals;*
- *Part 10: Specification for anti-intruder fences in chain link and welded mesh;*
- *Part 11: Specification for woven wood and lap boarded panel fences;*
- *Part 12: Specification for steel palisade fences<sup>1)</sup>;*
- *Part 13: Specification for chain link fences for tennis court surrounds;*
- *Part 14: Specification for open mesh steel panel fences;*
- *Part 16: Specification for organic powder coatings to be used as a plastics finish to components and mesh.*

The various parts specify requirements for the types of fence that are considered suitable for standardization. No attempt has been made to standardize fences or gates which are of a purely decorative nature, or which are designed for special purposes, and no requirements are specified for “patent” proprietary fencing systems. It is recommended that such fences or gates be designed in accordance with relevant clauses of this part of BS 1722.

This standard aims to establish minimum requirements for materials and workmanship for close-boarded fences and wooden palisade fences, in order to ensure satisfactory service for the purchaser, and to assist manufacturers and erecting contractors by eliminating unnecessary minor variations in the demands of purchasers. It specifies requirements for the components of the fence and for the way in which the fence needs to be constructed. The standard includes requirements for sizes of components, together with the permissible tolerances. These are minimum requirements and it is normally acceptable to use larger sizes, except where this would adversely affect the fit of components or where replacement parts need to match up with those already present.

The choice of a fence is influenced by its intended purpose, the desired service life, aesthetic considerations and the availability of components. Table 1 and 2 classify basic characteristics of the fences, to assist the specifier and erecting contractor.

This standard includes requirements for protective treatments. However, maintenance, which is an important aspect of extending the service life of the fence, is outside the scope of this standard. Premature failure can be avoided by taking care not to damage protective treatments during installation.

Ground conditions may indicate that a variation in the length of a post, or of the depth to which it should be set, is desirable. The post setting depths specified in this standard are intended for use in normal ground, but if special conditions exist that warrant a change in the specification, e.g. ground that is softer or firmer than usual, such a change needs to be agreed with the specifier.

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<sup>1)</sup> In course of revision.

It is generally assumed in this standard that the fence is erected on horizontal ground. Where the fence is erected on a gradient, special measures may be required.

This revision of BS 1722-5 combines the subject matter of BS 1722-5:1986 and BS 1722-6:1986, which are now withdrawn. The opportunity has also been taken to update the sizes and references, and to clarify certain points that were thought to be open to misinterpretation.

Annexes A and B are normative. Annexes C and D are informative.

It has been assumed in the drafting of this part of BS 1722 that the execution of its provisions is entrusted to appropriately qualified and experienced people. The lead erector should either:

- a) have achieved the appropriate National Vocational Qualification (NVQ) or Scottish Vocational Qualification (SVQ) in fence erection (level 2) relevant to this part of BS 1722; or
- b) be currently registered for the appropriate NVQ or SVQ in fence erection (level 2) relevant to this part of BS 1722, provided that such registration has not been in place for a period greater than 5 years without successful assessment having taken place.

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

**Compliance with a British Standard does not of itself confer immunity from legal obligations.**

### Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 21 and a back cover.

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## 1 Scope

This part of BS 1722 specifies requirements for close-boarded and wooden palisade fences. It includes requirements for the erection of the fencing at the specified location.

## 2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of this British Standard. For dated references, subsequent amendments to, or revisions of, any of these publications do not apply. For undated references, the latest edition of the publication referred to applies.

BS 12, *Specification for Portland cement*.

BS 146, *Specification for Portland blastfurnace cements*.

BS 443, *Specification for testing zinc coatings on steel wire and for quality requirements*.

BS 729, *Specification for hot dip galvanized coatings on iron and steel articles*.

BS 882, *Specification for aggregates from natural sources for concrete*.

BS 957-2, *Specification for feeler gauges — Part 2: Metric units*.

BS 1014, *Specification for pigments for Portland cement and Portland cement products*.

BS 1202-1, *Specification for nails — Part 1: Steel nails*.

BS 1881-116, *Testing concrete — Part 116: Method for determination of compressive strength of concrete cubes*.

BS 3892 (all parts), *Pulverized fuel-ash*.

BS 4027, *Specification for sulfate resisting Portland cement*.

BS 4102, *Specification for steel wire and wire products for fences*.

BS 4449, *Specification for carbon steel bars for the reinforcement of concrete*.

BS 4482, *Specification for cold reduced steel wire for the reinforcement of concrete*.

BS 4483, *Specification for steel fabric for the reinforcement of concrete*.

BS 4652, *Specification for zinc-rich priming paint (organic media)*.

BS 4978, *Specification for visual strength grading of softwood*.

BS 5075 (all parts), *Concrete admixtures*.

BS 5589, *Code of practice for preservation of timber*.

BS EN 844-9, *Round and sawn timber — Terminology — Part 9: Terms relating to features of sawn timber*.

BS EN 10223-1, *Steel wire and wire products for fences — Part 1: Zinc and zinc alloy coated steel barbed wire*.

## 3 Terms and definitions

For the purposes of this part of BS 1722, the terms and definitions given in BS EN 844-9 apply, together with the following.

### 3.1

#### structural components

posts and main rails

### 3.2

#### non-structural components

gravel boards, feather-edged boards, palisades, capping, counter rails, stumps and cleats

## 4 Dimensions, designation and general characteristics

NOTE The general arrangement of a close-boarded fence is shown in Figure 1, and of a wooded palisade fence in Figure 2.

**4.1** The dimensions and general characteristics of close-boarded fences, and their corresponding designation, shall be as given in Table 1.

**4.2** The dimensions and general characteristics of wooden palisade fences, and their corresponding designation, shall be as given in Table 2.

## 5 Wire

### 5.1 General

All wire shall conform to BS 4102.

### 5.2 Tying wire

Tying wire shall be of zinc-coated low-carbon steel (mild steel) and shall have a nominal wire diameter of 2 mm.

### 5.3 Barbed wire

Barbed wire shall conform to BS EN 10223-1.



