

# Fences —

## Part 11: Specification for woven wood and lap boarded panel fences

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- British Precast Concrete Federation Ltd.
- British Steel Industry (Wire Section)
- British Timber Merchants Association
- British Wire Netting Association
- British Wood Preserving Association
- Cement and Concrete Association
- Concrete Society
- Country Landowners' Association
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- Department of the Environment (Property Services Agency)
- Department of the Environment (Building Research Establishment, Princes Risborough Laboratory)
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- Royal Institution of Chartered Surveyors
- Society of Chain Link Fencing Manufacturers
- Society of Chestnut Fencing Manufacturers
- Timber Growers United Kingdom
- Timber Research and Development Association
- Timber Trade Federation
- Wire Products Association

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

- Consumer Standards Advisory Committee of BSI
- County Surveyor's Society
- Fencing Industry Association

## Amendments issued since publication

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## Foreword

This British Standard has been prepared under the direction of the Road Engineering Standards Committee. It is a revision of BS 1722-11:1972, which is withdrawn, and now describes requirements for woven wood panels and three forms of overlapped board panels.

BS 1722 is published in separate Parts as follows:

- *Part 1: Specification for chain link fences;*
- *Part 2: Specification for rectangular wire mesh and hexagonal wire netting fences;*
- *Part 3: Specification for strained wire fences;*
- *Part 4: Specification for cleft chestnut pale fences;*
- *Part 5: Specification for close-boarded fences;*
- *Part 6: Specification for wooden palisade fences;*
- *Part 7: Specification for wooden post and rail fences;*
- *Part 8: Specification for mild steel (low carbon steel) continuous bar fences;*
- *Part 9: Specification for mild steel (low carbon steel) fences with round or square verticals and flat posts and 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;*
- *Part 13: Specification for wire mesh fencing for tennis court surrounds.*

The various Parts specify requirements for the types of fence that are considered suitable for standardization. It should be noted that no attempt has been made to standardize fences of a purely decorative nature, or to suit special requirements, or to specify requirements for “patent” proprietary fencing systems. It is recommended that the structure of such fences should comply with those parts of this Part of BS 1722 that are applicable.

It has been assumed in the drafting of this British Standard that the execution of its provisions is entrusted to appropriately qualified and experienced people.

The purpose of this standard is to establish minimum requirements for materials and workmanship for the more common types of fence 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 which make up a fence and the way in which the fence needs to be constructed. Section 2 will be most important to component manufacturers while sections 1 and 3 are important to those specifying and erecting a fence. Throughout this standard there are requirements for sizes of components, together with the permissible tolerances on size. These are minimum requirements and it will normally be acceptable to use larger sizes, except where it would otherwise adversely affect the fit of components or where replacement parts need to match up with those already present.

The choice of a fence is affected by factors such as the intended purpose of the fence, the desired service life, aesthetic considerations and the availability of components. The specifier of the fence will know its intended purpose and by reference to Table 1 a suitable choice can be made. This then gives those erecting the fence the basic characteristics that need to be provided. This standard includes requirements for protective treatments. However, an important aspect of providing an extended service life is the maintenance of the fence after its erection; this 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 posts and 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, as for other variations.

To assist those specifying and/or providing a fence, Appendix C provides guidance on the more important details, which often take the form of selected options, that need to be specified at the time of ordering a fence. This is a new feature of the standard.

This revision has retained the method of allocating a reference code to each type of fence indicating its height and the material used for the panels. These type references are given in full in Table 1. The first two letters indicate the type of infill. The third letter indicates the material of the post, and the numbers give an indication of the height of the fence. Where appropriate a fourth letter indicates whether boards are square cut or feather edged, e.g. VLC 150F<sup>1)</sup> indicates a 1.5 m high fence of vertical overlapped feather edged board panels on concrete posts. For the sake of uniformity the quoted heights are those of the main infill material and exclude any ground clearance at the base or the additional height provided by, for instance, any barbed wire or trellis.

Designations of bolt size are in accordance with BS 4190.

The proof test for concrete posts has been deleted as experience has shown that there were technical problems associated with the application and interpretation of the test. Cube tests of concrete strength are now required and the frequency of testing is specified to ensure that regular quality checks are made.

Since the publication of the previous edition of this standard BS 5589 has been published, and the timber appendix in this standard has been revised to include the recommendations of BS 5589.

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.

**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 16, 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.

<sup>1)</sup> It should be noted that this coding does not differentiate between rectangular and slotted concrete posts.



# Section 1. General

## 1.1 Scope

This Part of BS 1722 specifies requirements for woven wood and lap boarded panel fences constructed from softwood panels fixed between timber or concrete posts. This standard is divided into sections that specify separate requirements for the material components for fences (see Section 2) and the erection of the fences (see Section 3).

NOTE The titles of the publications referred to in this standard are listed on the inside back cover.

## 1.2 Definitions

For the purposes of this Part of BS 1722, the timber definitions given in BS 6100-4.1 apply.

NOTE For convenience, the relevant definitions have been repeated in B.2.

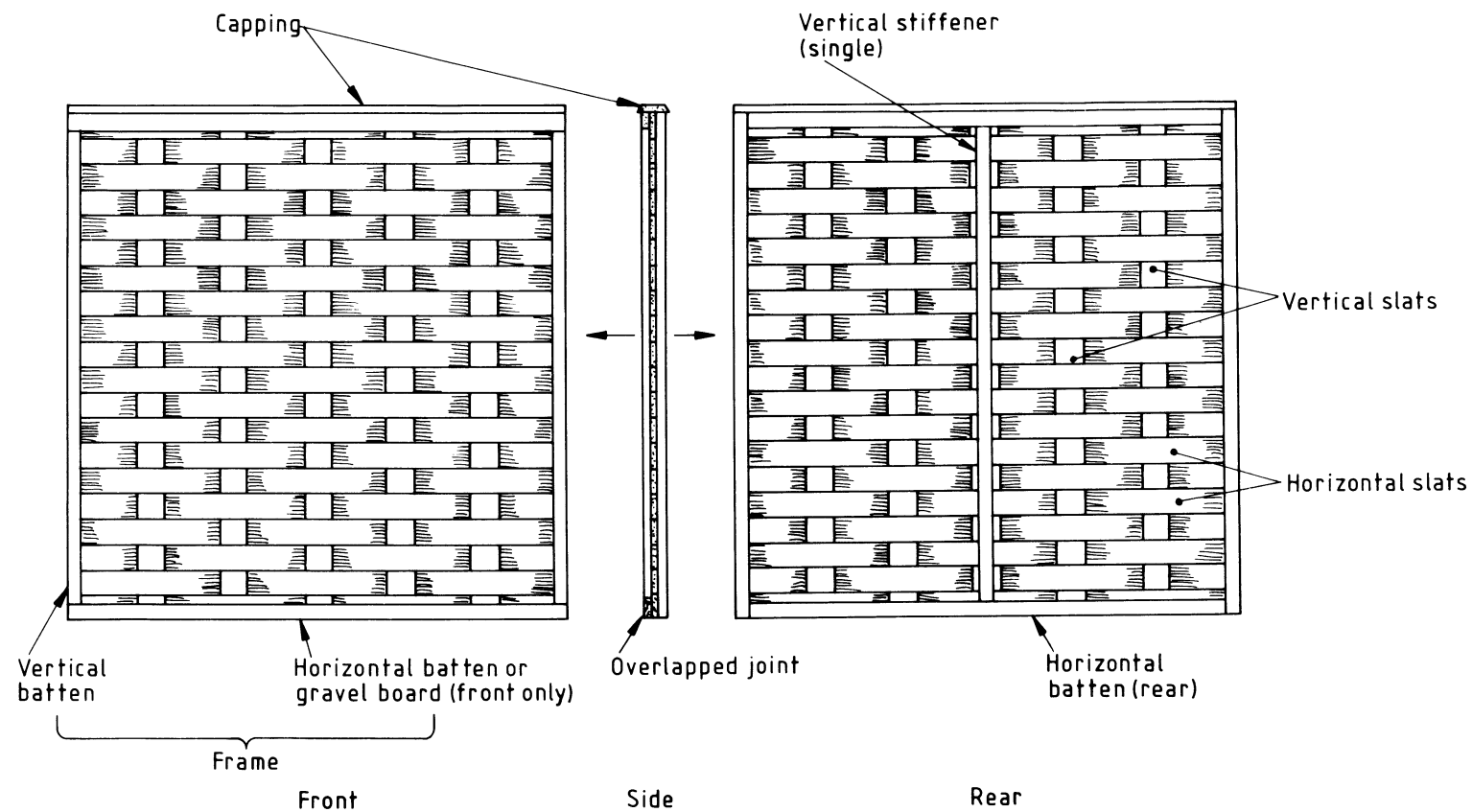
## 1.3 Dimensions and general characteristics

The dimensions of woven wood and lap boarded panel fences shall be as given in Table 1.

NOTE Figure 1 illustrates the general characteristics of panel fencing. It is not intended to illustrate any particular requirements of this Part of the standard but provides guidance as to the general layout of a typical fence, and on the terminology associated with this form of fencing.

**Table 1 — General characteristics of panels and posts**

| Woven wood                                                                                                                                                                               |                 | Overlapped board        |                 |                     |                 |                       |                 | Height | Length of posts <sup>b</sup> | Maximum length (all panels) |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------|-----------------|---------------------|-----------------|-----------------------|-----------------|--------|------------------------------|-----------------------------|
|                                                                                                                                                                                          |                 | Horizontal <sup>a</sup> |                 | Horizontal waney    |                 | Vertical <sup>a</sup> |                 |        |                              |                             |
| With concrete posts                                                                                                                                                                      | With wood posts | With concrete posts     | With wood posts | With concrete posts | With wood posts | With concrete posts   | With wood posts |        |                              |                             |
| WWC 60                                                                                                                                                                                   | WWW 60          | HLC 60                  | HLW 60          | HWC 60              | HWW 60          | VLC 60                | VLW 60          | m      | m                            | m                           |
| WWC 90                                                                                                                                                                                   | WWW 90          | HLC 90                  | HLW 90          | HWC 90              | HWW 90          | VLC 90                | VLW 90          | 0.6    | 1.2                          |                             |
| WWC 120                                                                                                                                                                                  | WWW 120         | HLC 120                 | HLW 120         | HWC 120             | HWW 120         | VLC 120               | VLW 120         | 0.9    | 1.5                          |                             |
| WWC 150                                                                                                                                                                                  | WWW 150         | HLC 150                 | HLW 150         | HWC 150             | HWW 150         | VLC 150               | VLW 150         | 1.2    | 1.8                          |                             |
| WWC 180                                                                                                                                                                                  | WWW 180         | HLC 180                 | HLW 180         | HWC 180             | HWW 180         | VLC 180               | VLW 180         | 1.5    | 2.1                          |                             |
|                                                                                                                                                                                          |                 |                         |                 |                     |                 |                       |                 | 1.8    | 2.4                          |                             |
| NOTE The above codes do not differentiate between rectangular and slotted concrete posts, which will need to be separately indicated.                                                    |                 |                         |                 |                     |                 |                       |                 |        |                              |                             |
| <sup>a</sup> The letter S or F should be added to indicate whether square cut or feather edged boards, respectively are required if this is of importance, e.g. HLC 120S, VLW 150F, etc. |                 |                         |                 |                     |                 |                       |                 |        |                              |                             |
| <sup>b</sup> Excluding any weathered top or post cap.                                                                                                                                    |                 |                         |                 |                     |                 |                       |                 |        |                              |                             |



(a) Woven wood panel

Figure 1 — General characteristics of a panel fence