

Fences —

Part 9: Specification for mild steel (low carbon steel) fences with round or square verticals and flat horizontals

ICS 91.090

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee B/201, Fences, upon which the following bodies were represented:

- Association of Security Consultants
- British Precast Concrete Federation
- County Surveyors' Society
- Department of the Environment, Transport and the Regions
- European Fencing Industry Association
- Fencing Contractors' Association
- Forestry Commission
- Galvanizers Association
- National Farmers Union
- Security Facilities Executive
- The Open Spaces Society
- Timber Trade Federation
- UK Steel Association

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

- Cold Rolled Sections Association
- National Association of Steel Stockholders

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Foreword

This part of BS 1722 has been prepared by Technical Committee B/201. It supersedes BS 1722-9:1992, which is withdrawn.

BS 1722 is published in the following parts:

- *Part 1: Specification for chain link fences;*
- *Part 2: Specification for strained wire and wire mesh netting fences;*
- *Part 4: Specification for cleft chestnut pale fences;*
- *Part 5: Specification for close-boarded and wooden palisade 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 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;*
- *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 for use as a plastics finish to components and mesh.*

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 or gates of a purely decorative nature, or those to suit special requirements; nor to specify requirements for “patent” proprietary fencing systems. It is recommended, however, that such fences or gates should be designed in accordance with the relevant clauses of this part of BS 1722.

This standard aims to establish minimum requirements for materials and workmanship of the more common types of fence in order to ensure satisfactory service for the purchaser, and to assist manufacturers and installers by eliminating unnecessary minor variations in the demands of purchasers. It specifies requirements for the components that make up a fence and the way in which the fence needs to be constructed. The standard includes 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 if this could adversely affect the fitting of components or if replacement parts are required to match with those already present.

Choosing a fence is affected by factors such as intended purpose, desired service life, aesthetic considerations and availability of components. The specifier can match a suitable choice of fence to its intended purpose and also inform those installing the fence of the basis characteristics required. This standard includes requirements for protective treatment. However, maintenance requirements of the fence after installation are outside the scope of this standard. Premature failure of the fence 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 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 conditions, but if special conditions exist that warrant a change in the specification, e.g. the ground is softer or firmer than usual, such a change should be agreed with the specifier.

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

The major changes in this revision are the removal of flat posts from the standard, the inclusion of RHS posts, removal of requirements for angle corner posts, which in this edition are specified as for line posts, and revision of the requirements for gates. The opportunity has also been taken to simplify the construction and installation requirements in line with current practice.

It should be noted that throughout this part of BS 1722 the fence post spacings are given in terms of centre distances.

This standard specifies requirements for fence materials and their combination and installation to provide a serviceable fence. Because a fence is made up of a number of separate components, of which the particular features may vary, a number of permissible combinations are available to the user. When preparing a specification for a fence it is therefore important to give precise details of the requirements of the fence and of the site. Annex A provides details of the fence requirements and installation site that should be agreed between the fence supplier and purchaser. However, as conditions vary from site to site, annex A should not be assumed to be exhaustive.

Annex A is 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. Before installation commences, the lead installer should either:

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

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