BS 1722-10:2019

BSI Standards Publication

Fences

Part 10: Specification for anti-intruder fences in chain link and welded mesh

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Foreword

Publishing information

This part of BS 1722 was published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 April 2019. It was prepared by Technical Committee B/201, *Fences and gates*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

This part of BS 1722 supersedes BS 1722-10:2006, which is withdrawn.

Relationship with other publications

BS 1722 is published in parts as follows:

- *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 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 prefabricated wood panel fences;*
- *Part 12: Specification for steel palisade fences;*
- *Part 14: Specification for open mesh steel panel fences;*
- *Part 16: Specification for powder coatings used as a plastics finish to components and mesh;*
- *Part 17: Specification for electric security fences – Design, installation and maintenance;*
- *Part 18: Specification for free-standing temporary steel mesh perimeter fencing panels.*

Information about this document

This is a full revision of this part of BS 1722, and introduces the following principal changes:

- Performance-based requirements have been specified rather than descriptive where possible
- Heights up to 3.60 m are now covered.

No attempt has been made to standardize fences or gates of a purely decorative nature, or to suit special requirements; nor to specify requirements for "patent" proprietary fencing systems. However, the structure of such fences or gates can still be designed in accordance with the relevant clauses of this part of BS 1722.

Throughout this part of BS 1722 fence post spacings are given in terms of centre-to-centre distances.

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Use of this document

It has been assumed in the drafting of this part of BS 1722 that the execution of its provision is entrusted to appropriately qualified and experienced people. Before installation commences, the Lead Installer and all other operatives are expected to have a suitable qualification.

NOTE An example of a suitable qualification for a Lead Installer is the attainment of a Joint Fencing Industry Skills Scheme (FISS) or Construction Scheme Skills Certification Scheme (CSCS) registration card skilled level (blue card). An example of a suitable qualification for all other operatives is the attainment of the basic fence operative card (green card). At the time of publication of this British Standard the registration cards are validated by the FISS and CSCS. FISS/CSCS maintains a national register of fence installers and operatives. Other schemes might be available.

This part of BS 1722 specifies the requirements for anti-intruder wire mesh fences. It may be used as a specification for work to be carried out by a specialist fencing contractor or, if such a contractor is not available, by local labour under strict supervision, with component parts supplied by firms approved by the client.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is "shall".

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. "organization" rather than "organisation").

Requirements in this standard are drafted in accordance with *Rules for the structure and drafting of UK standards*, subclause **G.1.1**, which states, "Requirements should be expressed using wording such as: 'When tested as described in Annex A, the product shall ...'". This means that only those products that are capable of passing the specified test will be deemed to conform to this standard.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

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Introduction

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 by reference to Table 1 and Table 2, and inform those installing the fence of the basic characteristics required.

Premature failure of the fence can be avoided by taking care not to damage protective treatments during installation.

1 Scope

This part of BS 1722 specifies requirements for anti-intruder chain link or welded mesh fences and gates of at least 2.4 m in height for situations that require a higher level of protection than that offered by fences conforming to BS 1722-1. It also includes requirements for the installation of the fencing at the specified location. Where enhanced levels of security are required, other types of fences are specified in BS 1722-12 and in the relevant clauses of BS 1722-14.

Provision is made for either single or double extension arms.

This British Standard includes requirements for component dimensions, together with the permissible tolerances on size. These are minimum requirements and it is acceptable to use larger sizes, except where this could adversely affect the fitting of components or if replacement parts are required to match with those already present.

This British Standard includes requirements for protective treatments. However, maintenance requirements for the fence after installation are outside the scope of this standard.

This British Standard specifies the requirements for posts, steel gates and gate posts and zinc coated or plastic coated zinc coated wire or mesh infill.

This British Standard also specifies requirements for fence materials and their combination and installation. Because a fence is made up of a number of separate components of which the particular features vary, e.g. zinc coated or plastic coated wire, a number of combinations are available to the user. Annex A provides details of the fence requirements and installation site to be agreed between the fence supplier and client at the time of ordering a fence. However, as conditions vary from site to site, the information in Annex A is not exhaustive.

Ground conditions might indicate that a variation in the length of a post or strut, or the depth to which it can be set, is desirable. The post and strut setting depths specified in this part of BS 1722 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. This also applies to other similar changes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes provisions of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

BS 1722-1, *Fences — Part 1: Specification for chain link fences*

BS 1722-16, *Fences — Part 16: Specification for powder coatings used as a plastics finish to components and mesh*

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