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**BS 4483:2025**



**BSI Standards Publication**

## **Steel fabric for the reinforcement of concrete – Specification**

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# Foreword

## Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 March 2025. It was prepared by Technical Committee ISE/104, *Concrete Reinforcing and Pre-Stressing Steels*. A list of organizations represented on these committees can be obtained on request to the committee manager.

## Supersession

This British Standard supersedes [BS 4483:2005](#), which is withdrawn.

## Information about this document

This is a full revision of the document, and introduces the following principal changes.

- This standard introduces a grade of bars, F500A, for use only for the manufacture of fabric to be used for predominantly static loading, whereas fabric manufactured from bars meeting the requirements of [BS 4449:2005+A3:2016](#) may be considered as welded bars for fatigue assessment purposes.
- The standard introduces two levels of shear force for welded joints depending on whether the welded joints are or are not considered in the structural design.
- A larger range of designated fabric types have been introduced that reflect and standardize the products commonly available in the market.

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This British Standard is subject to review upon the publication of [BS EN 10080](#) in line with the current UK Standards adoption agreements.

## Use of this document

Users of this British Standard are advised to assess the desirability of using reinforcing steel that has been demonstrated by third-party assessment to be suitable for this purpose.

## 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”).

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## 1 Scope

This British Standard specifies requirements for sheets of factory-made machine-welded fabric for the reinforcement of concrete, manufactured from ribbed bars conforming to this British Standard or [BS 4449:2005+A3:2016](#), or manufactured from bar/wire conforming to [BS 4482](#) for wrapping fabrics D49 and D98.

This British Standard does not set out fatigue requirements. Fabric manufactured from bars conforming to the fatigue requirements of [BS 4449:2005+A3:2016](#) and weld requirements of this standard may be considered as a welded bar for fatigue assessment purposes. F500A bars may only be used for predominantly static loading.

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## 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, or limits the application, of this document<sup>1)</sup>. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[BS 4449:2005+A3:2016](#), *Steel for the reinforcement of concrete – Weldable reinforcing steel – Bar, coil and decoiled product – Specification*

[BS 4482](#), *Steel wire for the reinforcement of concrete products – Specification*

[BS EN ISO 15630-1](#), *Steel for the reinforcement and prestressing of concrete – Test methods – Part 1: Reinforcing bars, rod and wire*

[BS EN ISO 15630-2](#), *Steel for the reinforcement and prestressing of concrete – Test methods – Part 2: Welded fabric and lattice girders*

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## 3 Terms, definitions and symbols

For the purposes of this British Standard, the following terms and definitions apply.

### 3.1 Terms and definitions

#### 3.1.1 batch

quantity of welded fabric of one type produced by one manufacturer at any one time

#### 3.1.2 characteristic value

value of a material or product having a prescribed probability of not being attained in a hypothetical unlimited test series

[SOURCE: [BS 4449:2005+A3:2016](#), **3.14**, modified – note deleted]

#### 3.1.3 longitudinal bar/wire

reinforcing steel in the manufacturing direction of the welded fabric

#### 3.1.4 maximum value

value not to be exceeded during testing

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<sup>1)</sup> Documents that are referred to solely in an informative manner are listed in the Bibliography.