

CONFIRMED
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Specification for

Steel fabric for the reinforcement of concrete

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Iron and Steel Standards Committee (ISM/—) to Technical Committee ISM/9, upon which the following bodies were represented:

- British Independent Steel Producers' Association
- British Precast Concrete Federation Ltd.
- British Reinforcement Manufacturers' Association
- British Steel Industry
- British Steel Industry — Wire Section
- Cement and Concrete Association
- Concrete Society
- County Surveyors' Society
- Department of the Environment (Property Services Agency)
- Department of Transport (Highways)
- Electricity Supply Industry in England and Wales
- Federation of Civil Engineering Contractors
- Greater London Council
- High Yield Bar Development Association
- Institution of Civil Engineers
- Institution of Structural Engineers
- UK Certification Authority Reinforcing Steels

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Foreword

This British Standard has been prepared under the direction of the Iron and Steel Standards Committee and supersedes BS 4483:1969 which is withdrawn. This revision reflects current practice and incorporates the fabric notation of BS 4466. All reinforcing steels supplied in accordance with this standard are readily weldable, providing that the requirements of BS 5135 are observed.

Purchasers ordering to this standard are advised to specify in their purchasing contract that the supplier operates a quality system in compliance with BS 5750-2 to ensure to their satisfaction that products claiming to comply with this standard consistently achieve the required level of quality.

NOTE A new British Standard on the welding of reinforcement is in preparation and, until it becomes available, the requirements of BS 5135 together with the reinforcement manufacturer's recommendation should be observed.

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 and ii, pages 1 to 8, 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.

1 Scope

This British Standard specifies requirements for factory made welded steel fabric manufactured from plain or deformed wires¹⁾ complying with BS 4449, BS 4461 or BS 4482 for the reinforcement of concrete.

Welded wire fabric and steel mesh products for other purposes are not included in this standard.

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

2 Definitions

For the purposes of this British Standard the following definitions apply.

2.1

batch

any quantity of fabric of one type presented for examination and test at any one time

2.2

bundle

two or more sheets of fabric properly bound together

2.3

cross wires

the wires on the upperside of a sheet or roll of fabric when viewed as shown in Figure 2

2.4

fabric

a cross-over arrangement of longitudinal wires and cross wires that are welded together at some or all of the cross-over points in a shear resistant manner complying with 12.2

2.5

length

- 1) Of wire. A piece, nominally straight, cut to a specified length.
- 2) Of roll or sheet. The overall dimension of the fabric measured in the direction of the longitudinal wires.

2.6

longitudinal wires

the wires on the underside of a sheet or roll of fabric when viewed as shown in Figure 2

2.7

mesh

the rectangle defined by the pitch of the longitudinal wires and the pitch of the cross wires

2.8

nominal size

the diameter of a circle with an area equal to the cross-sectional area of the wire

2.9

overhang

the extent of the projection of longitudinal wires or cross wires beyond the peripheral cross-over points in a sheet

2.10

pitch

the centre to centre spacing of wires in a sheet of fabric

2.11

size

the nominal size of a wire in millimetres

2.12

sheet

a single piece of fabric that may be flat or rolled or folded (i.e. bent to a specified shape)

2.13

width

the overall dimension of a sheet of fabric measured in the direction of the cross wires

3 Information to be supplied by the purchaser

To assist the manufacturer in supplying the required fabric, the following information shall be given in the enquiry and order.

- a) the number of this British Standard, i.e. BS 4483;
- b) the number of the appropriate British Standard for the wire quality, i.e. BS 4449, BS 4461 or BS 4482 and the type of wire required;
- c) a specification of the wire sizes and mesh arrangement required;
- d) the dimensions of each sheet required;
- e) the quantities of each sheet required.

¹⁾ For the purposes of this standard the term "wire" includes material complying with BS 4449 or BS 4461