

SINGAPORE STANDARD

**Welded steel fabric for the reinforcement
of concrete**

– Part 1 : Steel grades 300 and 500

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Foreword

This Singapore Standard was prepared by the Technical Committee on Steel under the direction of the Building Materials Product Standards Committee.

It is a revised edition of SS 32 : 1986. It is not equivalent to ISO 6935 : 1992 'Steel for the reinforcement of concrete – Part 3 : Welded fabric'. Modifications to certain areas of the ISO Standard were made to suit the established local practice. These areas include terminology, sampling and acceptance criteria for weld joints which were all based on SS 32 : 1986.

Acknowledgement is made for the use of information from ISO.

Annexes B, C and D of this Singapore Standard are for information only. Included in Annex D (Informative) is a specification to limit ionising radiation from steel for the reinforcement of concrete. The specification is introduced to address concerns of possible radioactive contamination during the manufacturing process and the risk to health through exposure to radioactivity from the finished steel product.

*As amended
Aug 2000*

This standard is released to allow time for the designers in the industry to introduce any necessary changes. The continued relevance of SS 32 : Part 2 : 1986 (formerly known as SS 32 : 1986) will be reviewed when CP 65 is next reviewed.

Attention is drawn to the possibility that some of the elements of this Singapore Standard may be the subject of patent rights. Enterprise Singapore shall not be held responsible for identifying any or all of such patent rights.

NOTE

1. *Singapore Standards (SSs) and Technical References (TRs) are reviewed periodically to keep abreast of technical changes, technological developments and industry practices. The changes are documented through the issue of either amendments or revisions.*
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3. *Compliance with a SS or TR does not exempt users from any legal obligations.*

Specification for welded steel fabric for the reinforcement of concrete – Part 1 : Steel grades 300 and 500

1 Scope

This Singapore Standard specifies technical requirements for factory made sheets or rolls of welded fabric, manufactured from steel wires or bars with diameters from 4 mm to 16 mm and designed for the reinforcement of concrete structures and the ordinary reinforcement of prestressed concrete structures.

For the purpose of this standard the term 'wire' also includes bars.

*As amended
Jan 2000*

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Singapore Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this Singapore Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

ISO 404 : 1992	Steel and steel products - General technical delivery requirements.
ISO 7500-1 : 1986	Metallic materials - Verification of static uniaxial testing machines - Part 1 : Tensile testing machines.
ISO 11082 : 1992	Certification scheme for welded fabric for the reinforcement of concrete structures.
SS 2 : -	Steel for the reinforcement of concrete Part 1 : 1999 Plain bars (steel grade 300) Part 2 : 1999 Ribbed bars (steel grade 500)
SS 18 : -	Cold-reduced steel wire for the reinforcement of concrete and the manufacture of welded fabric. Part 1 : 1999 Steel grade 500
SS 427 : 1998	Steel bars for reinforcement of concrete - Bend and rebend tests.
SS 456 : 1999	Metallic materials - Tensile testing at ambient temperature.