SS 561:2010(2022)+A2:2022 (ICS 77.140.15; 91.080.40)

SINGAPORE STANDARD **Specification for steel fabric for the** reinforcement of concrete

Incorporating Amendment No. 1 and 2

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Specification for steel fabric for the reinforcement of concrete

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Contents

CLAUSES				
1	Scope			
2	Normative references			
3 Terms and definitions				
4 Symbols				
5 Designation				
6	Manufacturing processes			
7 Product characteristics				
8 Evaluation of conformity				
9	Test methods			
10 Identification of the manufacturer and steel grade				
11 Verification of mechanical properties in the case of dispute ANNEXES				
				A
в	Material not covered by a third party product certification scheme (normative)			
С	Comparison of symbols used in this standard with those used in SS EN 1992-1-1:2008+A1:2020 (informative)			
D	Specification to limit ionising radiation			
TAB	TABLES			
1	List of symbols			
2	Mandrel diameter for the rebend test			
3	Sampling plan for welded fabric			
4	R_e coefficient k as a function of the number (n) of test results (for a reliable failure rate of 5 % [p = 0.95] at a probability of 90 %)			
5	A_{gt} and R_m/R_e coefficient k as a function of the number (n) of test results (for a reliable failure rate of 10 % [p = 0.90] at a probability of 90 %)			
A.1	Preferred range of designated fabric types and stock sheet size			
A.1 A.2	Preferred range of designated fabric types and stock sheet size			

Page

A.1	Geometric characteristics of purpose-made welded fabric	16
A.2	Purpose-made fabric example	17

SS 561:2010(2022)+A2:2022

Foreword

This Singapore Standard was prepared by the Technical Committee on Building Structure and Substructure under the purview of the Building and Construction Standards Committee.

The Standard is an adoption of BS 4483:2005 'Steel fabric for the reinforcement of concrete – Specification' (incorporating Amendment 1 dated 30 April 2007) and is implemented with the permission of British Standards Publishing Ltd. The modifications made to the BS include the types of fabric used under 'Shear force of welded joints' (7.2.4) and the addition of Table A.2 and Annex D.

Included in Annex D (Informative) is a specification to limit ionising radiation from steel for the reinforcement of concrete, which has been updated based on IAEA Safety Guide Standards Series No. RS-G-1.7 (2004). 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.

Table 1 is reproduced from EN 10080:2005 with the permission of CEN, Avenue Marnix 17, 1000 Brussels.

Acknowledgement is made to BSI and CEN for the use of materials from the above publications.

This standard has been written so that it can be used in conjunction with BS EN 10080:2005 `Steel for the reinforcement of concrete – Weldable reinforcing steel – General'.

Unless otherwise specified, the steel fabrics that are manufactured to this standard with bars of diameter 8 mm and above are conforming to the ductility Class A in Annex C of SS EN 1992-1-1:2008.

This SS 561:2010(2022)+A2:2022 and SS 560:2016 – 'Steel for the reinforcement of concrete – Weldable reinforcing steel – Bar, coil and decoiled product' are intended for use with SS EN 1992-1-1:2008+A1:2020 – 'Design of concrete structures – Part 1-1: General rules and rules for buildings'.

As amended, Sep 2022

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 such patent rights.

NOTE

- 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. Where SSs are deemed to be stable, i.e. no foreseeable changes in them, they will be classified as "mature standards". Mature standards will not be subject to further review unless there are requests to review such standards.
- 2. An SS or TR is voluntary in nature except when it is made mandatory by a regulatory authority. It can also be cited in contracts making its application a business necessity. Users are advised to assess and determine whether the SS or TR is suitable for their intended use or purpose. If required, they should refer to the relevant professionals or experts for advice on the use of the document. Enterprise Singapore and the Singapore Standards Council shall not be liable for any damages whether directly or indirectly suffered by anyone or any organisation as a result of the use of any SS or TR. Although care has been taken to draft this standard, users are also advised to ensure that they apply the information after due diligence.
- 3. Compliance with a SS or TR does not exempt users from any legal obligations.

Specification for steel fabric for the reinforcement of concrete

1 Scope

This Singapore Standard specifies requirements for sheets of factory-made machine-welded steel fabric for the reinforcement of concrete, manufactured from ribbed bars conforming to SS 560:2016.

 NOTE – Where the term "bar" is used in this standard, it includes bar or decoiled product conforming to SS 560:2016.

2 Normative references

The following referenced documents are indispensable for the application 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.

As amended, Mar 2020	SS 560:2016	Specification for steel for the reinforcement of concrete – Weldable reinforcing steel – Bar, coil and decoiled product
	BS EN 10080:2005	Steel for the reinforcement of concrete – Weldable reinforcing steel – General
	BS EN ISO 15630-1	Steel for the reinforcement and prestressing of concrete – Test methods – Part 1 : Reinforcing bars, wire rod and wires
	BS EN ISO 15630-2	Steel for the reinforcement and prestressing of concrete – Test methods – Part 2 : Welded fabric