

SINGAPORE STANDARD

SS 470 : Part 1 : 1999

(ICS 77.140)

SPECIFICATION FOR

Hot finished structural hollow sections of non-alloy and fine grain structural steels

Part 1 : Technical delivery requirements

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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.

This standard is based on EN 10210-1 : 1994 'Hot finished structural hollow sections of non-alloy and fine grain structural steels : Part 1 - Technical delivery requirements' and is produced with permission of CEN, rue de Stassart 36, B-1050 Brussels. All exploitation rights of the European Standard in any form and by any means are reserved worldwide by CEN to CEN members and no production may be undertaken without expressed permission in writing of CEN through PSB.

Annexes D and E (references on corresponding national standards and national designations) of EN 10210-1 : 1994 have been omitted from this standard.

Acknowledgement is made for the use of information from the above reference.

NOTE

1. *Singapore Standards are subject to periodic review to keep abreast of technological changes and new technical developments. The revisions of Singapore Standards are announced through the issue of either amendment slips or revised editions.*
2. *Compliance with a Singapore Standard does not exempt users from legal obligations.*

Specification for hot finished structural hollow sections of non-alloy and fine grain structural steels – Part 1 : Technical delivery requirements

1 Scope

This Part of this Singapore Standard specifies the technical delivery requirements for hot finished hollow sections of circular, square or rectangular form and applies to hollow sections formed hot with or without subsequent heat treatment or formed cold with subsequent heat treatment to obtain equivalent metallurgical conditions to those obtained in the hot formed product. Fine grain steels are generally delivered in the normalised condition.

The specified requirements apply to non-alloy base steel, non-alloy quality steel, fine grain non-alloy quality steel and fine grain alloy special steels as defined in European Standard EN 10020.

The grades, chemical composition and mechanical properties for the non-alloy base and quality steels are given in Annex A.

The grades, chemical composition and mechanical properties for the fine grain non-alloy quality and alloy special steels are given in Annex B.

The products specified in this Part of this Singapore Standard are intended for use in construction.

Requirements for tolerances, dimensions and sectional properties are contained in Part 2 of this standard (SS 470-2).

NOTE – A range of material grades is specified in this standard and the user should select the grade appropriate to the intended use and service conditions. The grades and mechanical properties are compatible with those in EN 10025 and EN 10113.

This Singapore Standard does not apply to products covered by the following standards:

EN 10025	Hot rolled products of non-alloy structural steels - Technical delivery conditions
EN10113	Hot rolled products in weldable fine grain structural steels
EN 10155	Structural steels with improved atmospheric corrosion resistance
prEN 10219	Cold formed welded structural hollow sections of non-alloy and fine grain steels
prEN 10225	Weldable structural steels for fixed offshore structures

2 Normative references

This Part of this Singapore Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this Part of this Singapore Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.