

SRI LANKA STANDARD 1006 PART 1 : 2016
UDC 624.014

**SPECIFICATION FOR
STEELS FOR STRUCTURAL AND
GENERAL ENGINEERING PURPOSES
PART 1 : STRUCTURAL STEELS
(FIRST REVISION)**

SRI LANKA STANDARDS INSTITUTION

Sri Lanka Standard
SPECIFICATION FOR STEELS FOR STRUCTURAL AND GENERAL
ENGINEERING PURPOSES
PART 1 : STRUCTURAL STEELS
(First Revision)

SLS 1006 Part 1 : 2016

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Part 1 : Structural Steels
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FOREWORD

This standard was approved by the Sectoral Committee on Materials, Mechanical Systems and Manufacturing Engineering and was authorized for adoption and publication as a Sri Lanka Standard by the Council of the Sri Lanka Standards Institution on 2016-11-24.

A long felt need of a more comprehensive standard including the clause 'Certification of Compliance' made it necessary to revise this standard to bring it in line with the current international standards published by the International Organization for Standardization(ISO).

This standard is issued in three parts as follows:

Part 1 Structural steels

Part 2 General engineering steels

Part 3 High yield strength structural steels for bars and sections.

This is the first revision of **SLS 1006 : Part 1: 1993**.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or an analysis, shall be rounded off in accordance with **SLS 102**. The number of significant places retained in the rounded off value shall be the same as that of the specified value in this standard.

In the preparation of this standard, the assistance derived from the **ISO 630** Structural Steel, a publication of International Organization for Standardization is gratefully acknowledged.

1 SCOPE

This standard specifies the requirements chemical composition, manufacture, finish, mechanical properties, dimensions, sectional properties, marking, testing and sampling for steels for general structural use. This standard applies to steel plates, hot rolled sections and bars, which are used in as-delivered condition and normally intended for welded or bolted structures.

This standard covers eight steel grades, S235, S275, S355, S450, SG205, SG250, SG 285, SG 345 and four qualities (A, B, C and D). Not all grades are available in all qualities, and some qualities have Charpy V-notch requirements.