



BSI Standards Publication

Steel strapping for packaging

National foreword

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The UK participation in its preparation was entrusted to Technical Committee PKW/0, Packaging.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Steel strapping for packaging

Cerclage métallique destiné à l'emballage



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights. Details of any patent rights identified during the development of the document will be in the Introduction and/or on the ISO list of patent declarations received (see www.iso.org/patents).

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For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 122, *Packaging*.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

Steel strapping for packaging

1 Scope

This document specifies the classification, dimensions, shape, technical requirements, inspection rules and testing methods as well as marking, ordering information and logistics of the steel strapping for packaging.

This document is applicable to steel strapping for packaging in the field of metallic material, glass, light industrial products and logistics, etc.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

[ISO 404](#), *Steel and steel products — General technical delivery requirements*

[ISO 6892-1](#), *Metallic materials — Tensile testing — Part 1: Method of test at room temperature*

[ISO 9227](#), *Corrosion tests in artificial atmospheres — Salt spray tests*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

packaging

product to be used for the containment, protection, handling, delivery, storage, transport and presentation of goods, from raw materials to processed goods, from the producer or manufacturer to the user or purchaser, including processor, assembler or other intermediary

[SOURCE: ISO 21067-1:2016, 2.1.1, modified]

3.2

steel strapping

strip of metal material, which is made from carbon steel or alloy steel through heat treatment process, used in bundling, reinforcing and connection for industrial goods and transport process by manual or automatic machine

3.3

camber

greatest deviation of a side edge from a straight line, the measurement being taken on the concave side with a straight edge

[SOURCE: ISO 3574:2012, 3.3]

3.4 flatness

maximum distance between the lower surface of steel strapping and the horizontal surface

3.5 twist

maximum dip angle formed by the lower surface of steel strapping from the horizontal surface

4 Classification

4.1 Tensile strength

Steel strapping's tensile strength classification shall be in accordance with [Table 1](#).

Table 1 — Tensile strength classification

Classification	Abbreviation
Regular tensile strength	RT
High tensile strength	HT
Super high tensile strength	SHT

4.2 Surface finish

Steel strapping's surface finish classification shall be in accordance with [Table 2](#).

Table 2 — Surface finish classification

Classification	Abbreviation
Bright	B
Blue and waxed	BW
Painted and waxed (Painted only)	PW(P)
Zinc coated	Z

For the description of each category, see [Annex A](#).

When agreed between the manufacturer and the purchaser, stainless steel strapping may be supplied.

The painted and zinc coated thickness on each side shall not be less than 3 µm.

The colour of painted coating is normally black. When agreed between the manufacturer and the purchaser, other colours may be supplied.

4.3 Wound type

Steel strapping's wound type classification shall be in accordance with [Table 3](#).

Table 3 — Wound type classification

Classification	Abbreviation
Ribbon	R
Oscillated	O

For the description of each category, see [Annex A](#).