

# INTERNATIONAL STANDARD

**ISO**  
**433**

Second edition  
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## Conveyor belts — Marking

*Courroies transporteuses — Marquage*

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Reference number  
ISO 433:1991(E)

## 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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 433 was prepared by Technical Committee ISO/TC 41, *Pulleys and belts (including veebelts)*.

This second edition cancels and replaces the first edition (ISO 433:1982), of which it constitutes a technical revision.

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# Conveyor belts — Marking

## 1 Scope

This International Standard specifies the marking of conveyor belts, i.e.

- the indications to be marked;
- the dimensions of the marks;
- the position of the marks.

## 2 Normative references

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

ISO 283:1990, *Conveyor belts — Full thickness tensile strength and elongation — Specifications and method of test.*

ISO 284:1982, *Conveyor belts — Electrical conductivity — Specification and method of test.*

ISO 340:1988, *Conveyor belts — Flame retardation — Specifications and test method.*

ISO 3166:1988, *Codes for the representation of names of countries.*

ISO 4195-2:1988, *Conveyor belts — Heat resistance — Part 2: Specifications.*

ISO 10247:1990, *Conveyor belts — Characteristics of covers — Classification.*

## 3 Definitions

For the purposes of this International Standard, the following definitions apply.

**3.1 full width belting:** Conveyor belting originally made to the width at which it is intended to be installed.

**3.2 slab belting:** Conveyor belting made in a wide slab for slitting into the width at which it will be installed.

## 4 Indications to be marked

The indications to be marked are shown in 4.1 to 4.5, in the order in which they appear in the marking.

**4.1** The standard value of the **breaking strength** at full thickness; in the longitudinal direction, expressed in newtons per millimetre determined in accordance with ISO 283.

4.2 One or more letters identifying the **properties**, in accordance with the following codes:

Letter	Property	Corresponding ISO Standard
F	Flame resistance with and without cover	ISO 340
J	Flame resistance with covers	ISO 340
E	Electrical conductivity (static electricity)	ISO 284
S	Flame resistance with and without covers and electrical conductivity (static electricity)	ISO 340 ISO 284
K	Flame resistance with covers and electrical conductivity (static electricity)	ISO 340 ISO 284
H	Severe cut and gouge service	ISO 10247
D	Severe abrasion service	ISO 10247
L	Moderate service	ISO 10247

4.3 The last two figures of the year of manufacture.

4.4 A letter (or letters) identifying the manufacturer in his own country. Below these letters, and without requirements as to dimensions, the manufacturer's country in accordance with ISO 3166:1988, ISO alpha-2 code.

4.5 These indications may be supplemented by not more than five characters, intended to complete the identification of the belt [for example, heat resistance (see ISO 4195-2), serial number of the belt length]. If provision is made for applying a national standard, a certification or a special certification, its number may be written below or alongside the other marks, without requirements as to dimensions. Other characters may be added.

## 5 Dimensions and position of marks

### 5.1 Dimensions of marks

Height: 20 mm to 80 mm

Depth of impression:

1,5 mm max. (for belts of cover thickness greater than or equal to 2 mm);

50 % max. of the cover thickness (for belts of cover thickness less than 2 mm).

### 5.2 Position of marks

Unless otherwise specified, the marks shall be made on the top cover of the conveyor belt.

In the case of specific instructions, the marking may be made on the bottom cover of the conveyor belt for a particular clearly defined use.

#### 5.2.1 Marking of full-width belts

The marks shall be approximately 50 mm to 100 mm from the left-hand edge and 50 mm to 100 mm from the right-hand edge of the belt, with reference to the part of the mark nearest the edge, and shall be a maximum of 15 m apart.

These requirements are shown on figure 1.

#### 5.2.2 Marking of slab belts

In the case of slab belts, the marks shall be made in the transverse direction on the belt width, with a maximum spacing of 15 m.

The marks shall be of such a size that they are repeated several times across the width of the belt so that full marks appear on narrower belts cut from slabs.

NOTE 1 In order to avoid moulded irregularities in the load-carrying part of the belt surface, transverse marks may be vulcanized on rubber label strips.

These requirements are shown on figure 2.

#### 5.2.3 Marking on side plates of roll

This optional marking shall be applied on the side plates of the roll using paint.

#### 5.2.4 Marking on mandrel

This optional marking shall be applied on the mandrel using paint.

## 6 Example of marking

**315 S 80 H 00296**

Standard value of breaking strength	Property	Year	Identification of the manufacturer. Manufacturer's country	Supplementary information
315	S	80	H	00296

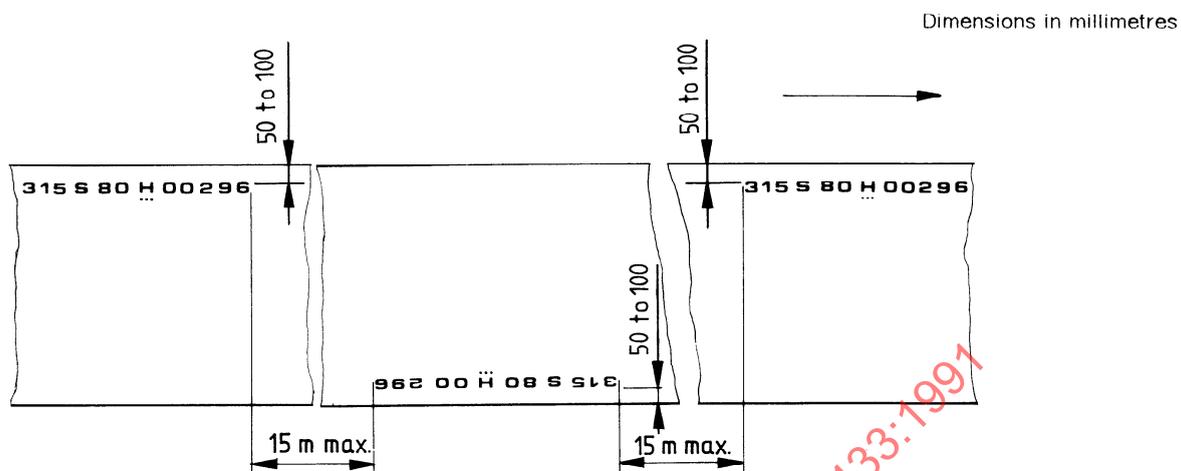


Figure 1 — Marking of full-width belts

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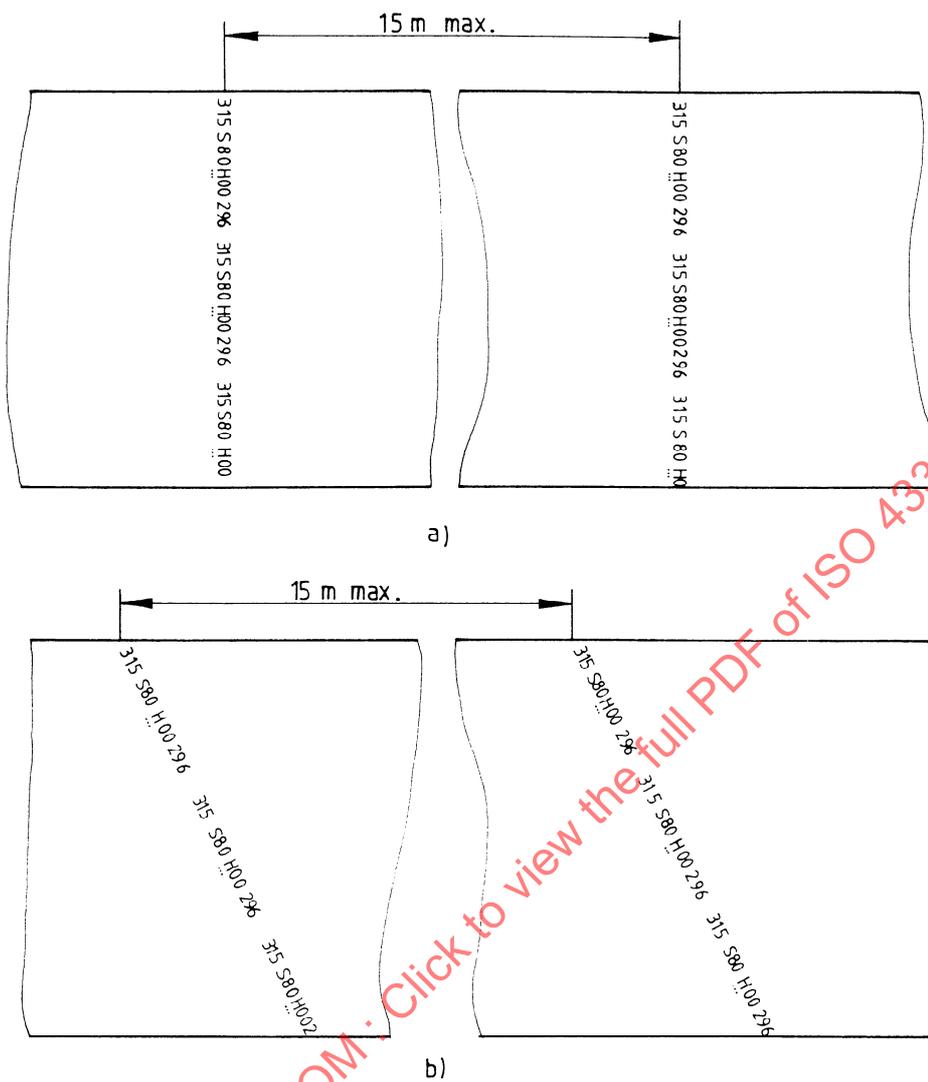


Figure 2 — Marking of slab belts