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**Jeklena žica in žični izdelki za ograje - 5. del: Kolenčasto in vozlasto tkana jeklena žična mreža**

Steel wire and wire products for fences - Part 5: Steel wire woven hinged joint and knotted mesh fencing

Stahldraht und Erzeugnisse aus Stahldraht für Zäune - Teil 5: Gelenk- und Knotengitter aus Stahldraht für Zäune

Fils et produits tréfilés en acier pour clôtures et grillages - Partie 5: Grillage noué en acier pour le béton

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**Ta slovenski standard je istoveten z: EN 10223-5:1998**

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**ICS:**

77.140.65	Jeklene žice, jeklene vrvi in verige	Steel wire, wire ropes and link chains
91.090	Konstrukcije zunaj stavb	External structures

**SIST EN 10223-5:2000**

**en**

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EUROPEAN STANDARD

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NORME EUROPÉENNE

EUROPÄISCHE NORM

March 1998

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Descriptors: fences, wire nettings, wire, steels, livestock, designation, characteristics, dimensions, dimensional tolerances, manufacturing, galvanizing, zinc alloys, mechanical strength, tests

English version

## Steel wire and wire products for fences - Part 5 : Steel wire woven hinged joint and knotted mesh fencing

Fils et produits tréfilés en acier pour clôtures et grillages -  
Partie 5 : Grillage noué en acier pour le bétail

Stahldraht und Erzeugnisse aus Stahldraht für Zäune - Teil  
5 : Gelenk- und Knotengitter aus Stahldraht für Zäune

This European Standard was approved by CEN on 26 February 1998.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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## Foreword

This European Standard has been prepared by Technical Committee ECISS/TC 30 "Steel wires", the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 1998, and conflicting national standards shall be withdrawn at the latest by September 1998.

This standard comprises the following parts:

- Part 1: Zinc and zinc alloy coated steel barbed wire
- Part 2: Hexagonal steel wire netting for agricultural, insulation and fencing purposes
- Part 3: Hexagonal steel wire netting for engineering purposes
- Part 4: Steel wire welded mesh fencing
- Part 5: Steel wire woven hinged joint and knotted mesh fencing
- Part 6: Steel wire chain link fencing

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

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## 1 Scope

This Part of this European Standard specifies preferred dimensions, properties and coatings of zinc and zinc alloy coated steel wire woven hinged joint and knotted mesh fencing.

## 2 Normative references

This European 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 European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 10021	General technical delivery conditions for iron and steel products
EN 10204	Metallic products - Types of inspection documents
EN 10218-1	Steel wire and wire products - General Part 1: Test methods
EN 10218-2	Steel wire and wire products - General Part 2: Dimensions and tolerances
prEN 10244-1	Steel wire and wire products - Non ferrous metallic coatings on steel wire Part 1: General principles
prEN 10244-2	Steel wire and wire products - Non ferrous metallic coatings on steel wire Part 2: Zinc and zinc alloy coating

## 3 Definitions

For the purposes of this Standard, the following definitions apply:

**3.1 knotted mesh fencing:** Fencing with rectangular meshes made of line and stay wires zinc or zinc alloy coated to prEN 10244-1 and prEN 10244-2 class A. The line and stay wires are connected by a hinged joint spiral knot in the case of hinge joint stock fence (see figure 1) and by a knot in the case of knotted stock fence (see figure 2) (except for the selvedge wire which is spiral knotted).

The top and bottom wires of the fence may consist of a larger diameter selvedge wire.

The rectangular mesh openings may decrease in size from the top downwards.

The line and selvedge wire are regularly and evenly crimped between the stay wires (to aid erection of the fence).

### 3.2 classification of woven joint fencing: Classification relating to

a) strength of wire:

- strength 1 applies to fencing manufactured from low tensile wire
- strength 2 applies to fencing manufactured from high tensile wire

b) nominal diameter of wires incorporated in the fence using

- L for light (small diameter wire)
- M for medium (medium diameter wire)
- H for heavy (large diameter wire).

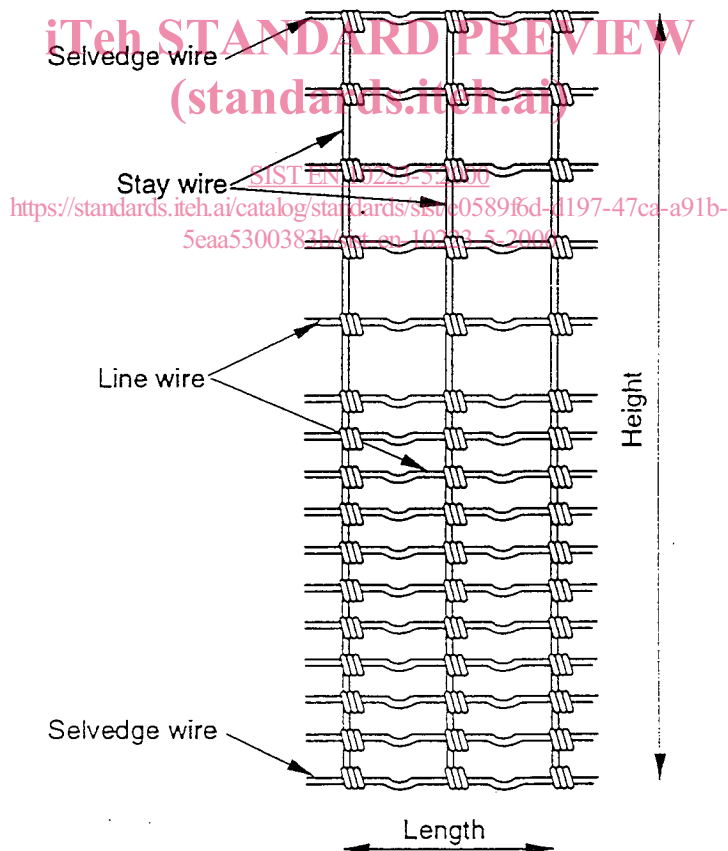
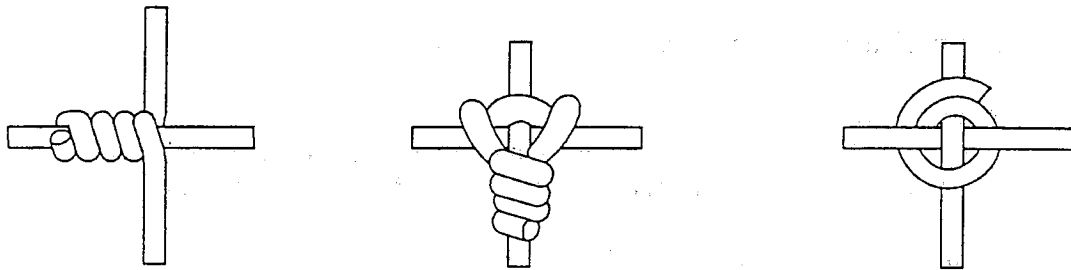


Figure 1: Example of woven hinged joint design



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**Figure 2: Examples of knotted joint design**

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#### 4 Information to be supplied by the purchaser

The following information shall be supplied by the purchaser at the time of enquiry and order:

- a) the number of this European Standard;
- b) quantity;
- c) hinged joint or knotted joint;
- d) classification (i.e. L, M or H and 1 or 2);
- e) designation (see 5, table A.1 and table A.2);
- f) length of rolls;
- g) height of roll;
- h) number of line wires and stay wire spacing;
- i) for 2M and 2H the size of selvedge wire required;
- j) coating type, zinc or zinc alloy;
- k) if uniformity of coating is to be measured;
- l) inspection documentation requirements;
- m) agreed quality characteristics for testing (see clause 7)

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#### 5 Designation of hinged joint (and knotted mesh fencing)

Designation of the type is as follows: [SIST EN 10223-5:2000](https://standards.iteh.ai/catalog/standards/sist/e0589f6d-d197-47ca-a91b-5eaa5300383b/sist-en-10223-5-2000) xxx\xx\xx  
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Height (in cm)	_____
Number of line wires including selvedge	_____
Distance between stay wires (in cm)	_____

Example:- 80/8/15

Typical designations of hinged joint and knotted mesh fencing are given in annex A.1 and annex A.2.

#### 6 Manufacture

##### 6.1 Base metal

Wires shall be manufactured from steel rod capable of achieving the tensile properties given in tables 1 and 2.