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**Textile machinery and accessories —  
Bars for drop wires for electrical warp  
stop motions**

*Matériel pour l'industrie textile — Supports de lamelles pour  
casse-chaînes électriques*

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ISO 13435:2011

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## Foreword

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The main task of technical committees is to prepare International Standards. 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.

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ISO 13435 was prepared by Technical Committee ISO/TC 72, *Textile machinery and accessories*, Subcommittee SC 3, *Machinery for fabric manufacturing including preparatory machinery and accessories*.

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# Textile machinery and accessories — Bars for drop wires for electrical warp stop motions

## 1 Scope

This International Standard specifies dimensions and tolerances for bars for drop wires for electrical warp stop motions with continuous contact rail (form E1) or inner split contact rail (form E2).

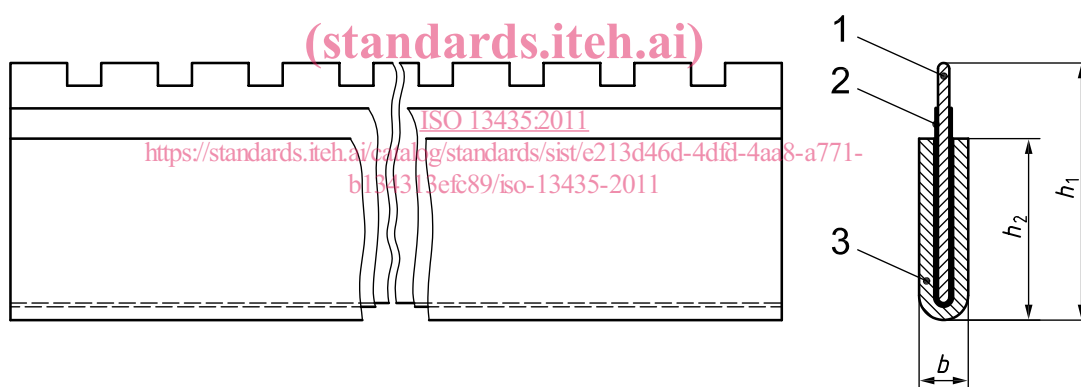
## 2 Dimensions

The dimensions for bars for drop wires for electrical warp stop motions with continuous contact rail (form E1) or inner split contact rail (form E2) shown in Figure 1 and Figure 2, and given in Table 1, shall be met.

NOTE For tolerance,  $b$ , see Table 1.

### 2.1 Form E1

For bars for drop wires for electrical warp stop motions with continuous inner contact rail, see Figure 1.



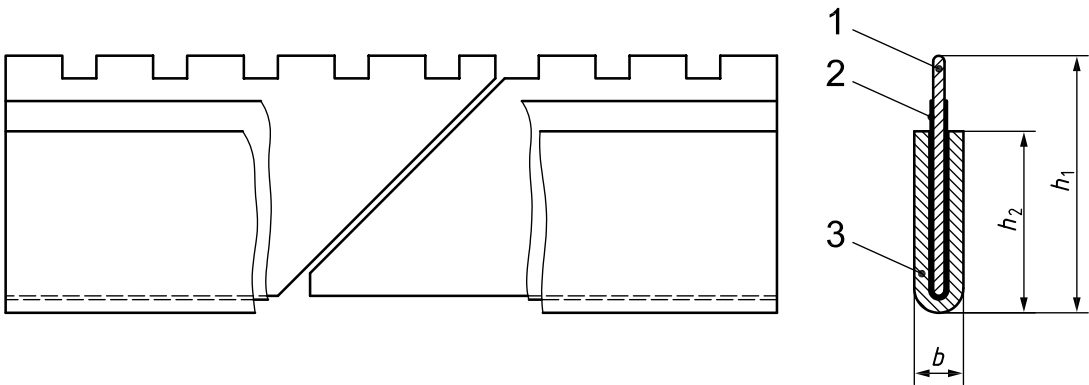
#### Key

- 1 inner contact rail
- 2 isolation
- 3 external contact rail

Figure 1 — Form E1 — Toothed

### 2.2 Form E2

For inner split contact rail for separate control of the left or right half of the weaving machine, see Figure 2.



- Key**
- 1 inner contact rail
  - 2 isolation
  - 3 external contact rail

Figure 2 — Form E2 — Toothed

Table 1 — Bars for drop wire

Dimensions in millimetres

	<i>b</i>	Tolerances		Length <sup>a</sup>
3,4	0 -0,3	13	9	According to type of weaving machine
		18	14	
4	+0,1 -0,2	16	16	
		23	18	

<sup>a</sup> The length of the bar depends on the type and width of the weaving machine and shall be given in the designation.

3 Designation for bars for drop wires for electrical warp stop motions

The designation for bars for drop wires for electrical warp stop motions with continuous contact rail (form E1) and inner split contact rail (form E2) shall include the following information in the order given:

- a) reference to this International Standard, i.e. ISO 13435:2011;
- b) type of electrical warp stop motions:
  - with continuous contact rail (form E1);
  - with inner split contact rail (form E2);
- c) width of the bar, *b*, in millimetres;
- d) height of the bar, *h*<sub>1</sub>, in millimetres;
- e) length of the bar (according to type of weaving machine).

EXAMPLE A bar for drop wires for electrical warp stop motion with continuous inner contact rail (form E1) of width *b* = 4 mm, height *h*<sub>1</sub> = 23 mm and length = 1 600 mm is designated as follows:

Bar for drop wire ISO 13435 - E1 - 4 × 23 × 1 600

## 4 Material

### 4.1 External and inner contact rail

Copper-zinc alloy or steel or aluminium (according to the selection of the manufacturer).

### 4.2 Isolation

Thermoplastic foil shall be used for isolation.

## 5 Construction

The type of the inner contact rail (smooth or toothed) and the variant of rail ends shall be agreed upon by the manufacturer.

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