



# SLOVENSKI STANDARD

SIST EN 516:2006

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## Pomožna oprema za prekrivanje streh – Oprema za dostop na streho – Pohodne poti, stopnice in lestve

Prefabricated accessories for roofing - Installations for roof access - Walkways, treads and steps

Vorgefertigte Zubehörteile für Dacheindeckungen - Einrichtungen zum Betreten des Daches - Laufstege, Trittlflächen und Einzeltritte

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Accessoires préfabriqués pour couverture - Installations pour acces au toit - Passerelles, plans de marche et escabeaux

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**Ta slovenski standard je istoveten z: EN 516:2006**

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English Version

## Prefabricated accessories for roofing - Installations for roof access - Walkways, treads and steps

Accessoires préfabriqués pour couverture - Installations pour accès du toit - Passerelles, plans de marche et escabeaux

Vorgefertigte Zubehörteile für Dacheindeckungen - Einrichtungen zum Betreten des Daches - Laufstege, Trittflächen und Einzeltritte

This European Standard was approved by CEN on 7 December 2005.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

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## Foreword

This document (EN 516:2006) has been prepared by Technical Committee CEN/TC 128 "Roof covering products for discontinuous laying and products for wall cladding", the secretariat of which is held by IBN/BIN.

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 July 2006, and conflicting national standards shall be withdrawn at the latest by July 2006.

This document supersedes EN 516:1995.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive(s), see informative Annex ZA, which is an integral part of this document.

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

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## 1 Scope

This document applies to installations for roof access (building products) permanently fixed to the load-bearing construction of pitched roofs, to stand or to walk on during inspection, maintenance and repair of facilities on the roof.

It specifies essential dimensions, materials to be used, requirements with respect to the load-bearing capacity of the installation for roof access fastened to the roof construction including their fastening system, and the extent of testing.

This document does not apply to permanently fixed ladders on pitched roofs.

## 2 Normative references

The following referenced documents are indispensable for the application 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.

EN 364, *Personal protective equipment against falls from a height — Test methods*

EN 795, *Protection against falls from a height — Anchor devices — Requirements and testing*

EN ISO 1140, *Fibre ropes — Polyamide — 3-, 4- and 8-strand ropes (ISO 1140:2004)*

EN ISO 1461, *Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods (ISO 1461:1999)*

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## 3 Terms and definitions

For the purpose of this document, the following definitions apply.

### 3.1

#### installation for roof access

building product with a platform to stand or to walk on with one or more supports permanently fixed by means of associated fastening systems to the load-bearing construction of a pitched roof

Note 1 See figure 1

Note 2 Depending on the size of the platform, installations for roof access are designated as walkways (see Figure 2), treads (see figure 3) or steps (see figure 4)

### 3.2

#### fastening system

combination of products which fasten the walkways, treads and steps, to the load-bearing roof construction

### 3.3

#### load-bearing roof construction

part of the roof construction which is able to carry potential loads and to transmit them to the building structure

## 4 Symbols

*b* width

- $l$  length
- $R$  lanyard
- $P$  test load
- $\alpha$  roof slope

## 5 Materials

Installations for roof access and their fastening systems shall be made of metal or equivalent material and be resistant to corrosion as well as to atmospheric and climatic influences. The material shall be free from faults and inclusions that may impair their performance abilities.

The corrosion resistance shall be at least equivalent to that of hot-galvanised steel with a protective layer according to EN ISO 1461.

Parts of the fastening system beneath the roof covering may be from timber and shall then be protected against atmospheric and climatic influences.

## 6 Dimensions and construction requirements

### 6.1 General

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Installations for roof access shall be classified as follows:

- Class 1: Installations that shall not be used as anchorage points to which personal protective equipment against fall or for restraint are attached.
- Class 2: Installations that may be used as anchorage points to which personal protective equipment against fall or for restraint are attached.

The surfaces of the platforms of walkways, treads and steps shall be designed to avoid slipping of persons and collection of water and, where necessary, to minimise snow build-up. Constructions with sharp angles or edges have to be avoided.

To accommodate roofs with different slopes, the connections between platform and supports shall be adjustable but they shall be designed to be secured against accidental disconnection after installation.

The type and size of the fastening system(s) shall be specified by the manufacturer.

### 6.2 Walkways

Walkways are distinguished according to the width of their platforms as types A, B or C. The minimum width  $b$  of the platform shall be for:

- Type A: 250 mm,
- Type B: 350 mm and
- Type C: 430 mm.

The length  $l$  of the platforms of all types shall be at least 500 mm.



The platforms of walkways of Type B shall be provided with turn-ups or side battens of at least 20 mm on both long sides, measured from the platform surface, to prevent persons from slipping.

The supports of walkways shall be designed in such a way that, after mounting on the roof construction, the inclination across the width  $b$  as well as across the length  $l$  is not greater than  $3^\circ$  from the horizontal.

### 6.3 Treads

The platform of treads shall have a width  $b$  of at least 250 mm.

The length  $l$  shall be at least 400 mm.

The supports of treads shall be designed in such a way that, after mounting on the roof construction, the inclination across the width  $b$  as well as across the length  $l$  is not greater than  $3^\circ$  from the horizontal.

### 6.4 Steps

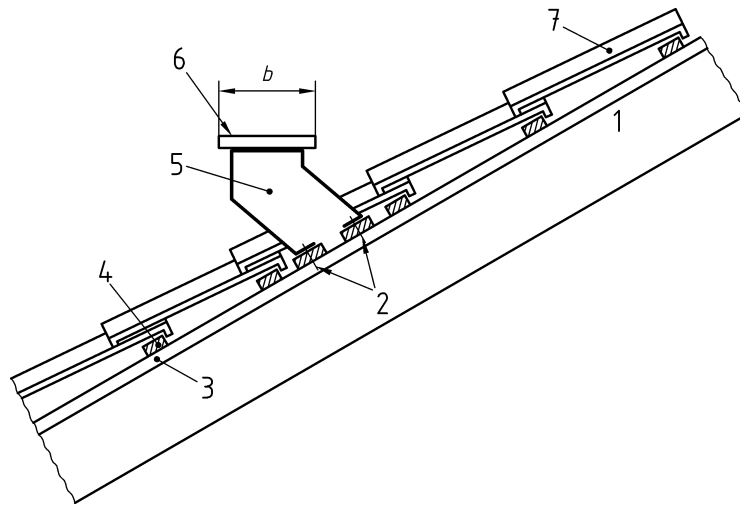
The platform of steps shall have a size  $b \times l$  of at least 130 mm  $\times$  130 mm.

On all sides, except the front and rear side, the platform of steps shall be provided with turn-ups or side battens of at least 20 mm, measured from the platform surface, to prevent persons from slipping.

Furthermore, steps shall have a handle or a grip hole in the platform.

The supports of steps shall be designed in such a way that, after mounting on the roof construction, the inclination across the width  $b$  as well as across the length  $l$  is not greater than  $3^\circ$  from the horizontal.

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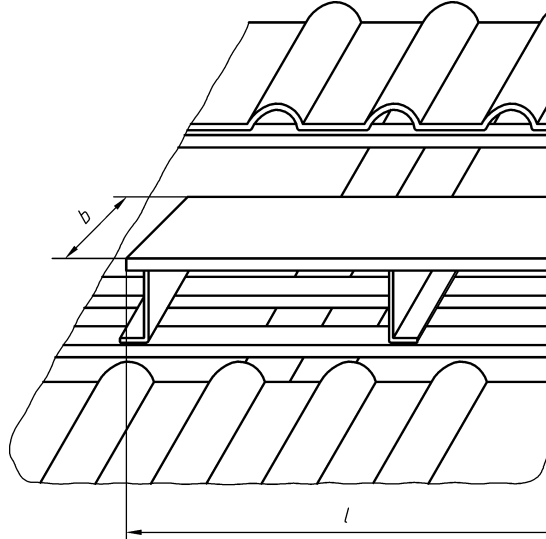
**Key**

- 1 Rafter
- 2 Fastening system
- 3 Counter-batten
- 4 Batten
- 5 Supporting construction
- 6 Walkway, tread, step
- 7 Roofing
- b* Width

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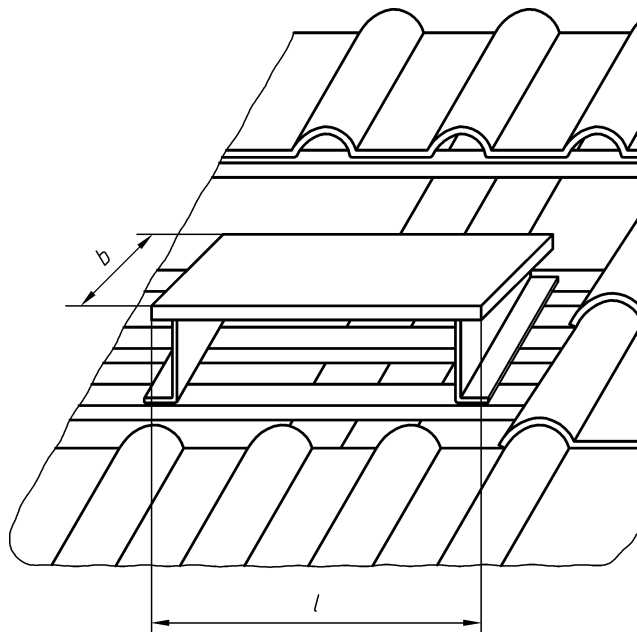
**Figure 1 — Installation for roof access (diagrammatic section)**



**Key**

- b* Width
- l* Length

**Figure 2 — Walkway**

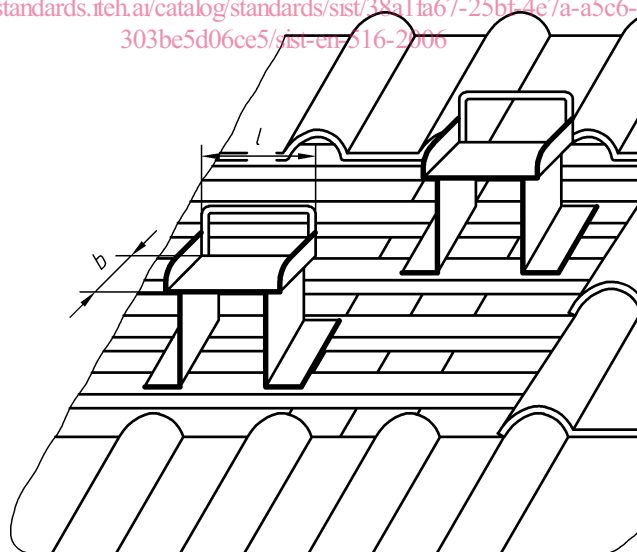


**Key**  
*b* Width  
*l* Length

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Figure 3 — Tread

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**Key**  
*b* Width  
*l* Length

Figure 4 — Step