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**Zaslони proti bleščanju - 1. del: Lastnosti in karakteristike**

Anti-glare screens for roads - Part 1: Performance and characteristics

Blendschutzzäune für Straßen - Teil 1: Anforderungen und Eigenschaften

Blendschutzzäune für Straßen - Teil 1: Anforderungen und Eigenschaften

**Ta slovenski standard je istoveten z: EN 12676-1:2000/A1:2003****SIST EN 12676-1:2002/A1:2004**<https://standards.iteh.ai/catalog/standards/sist/3ff2648c-2370-4aa1-b0fa-f7e6797a3e96/sist-en-12676-1-2002-a1-2004>**ICS:**

93.080.30	Cestna oprema in pomožne naprave	Road equipment and installations
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**SIST EN 12676-1:2002/A1:2004** **en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 12676-1:2000/A1**

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English version

**Anti-glare screens for roads - Part 1: Performance and characteristics**

Ecrans anti-éblouissement routiers - Partie 1:  
Performances et caractéristiques

Blendschutzzäune für Straßen - Teil 1: Anforderungen und  
Eigenschaften

This amendment A1 modifies the European Standard EN 12676-1:2000; it was approved by CEN on 9 January 2003.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Management Centre or to any CEN member.

This amendment 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 Management Centre 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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

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

**Management Centre: rue de Stassart, 36 B-1050 Brussels**

**EN 12676-1:2000/A1:2003 (E)****Foreword**

This document (EN 12676-1:2000/A1:2003) has been prepared by Technical Committee CEN/TC 226 "Road equipment", the secretariat of which is held by AFNOR.

This Amendment to the European Standard EN 12676-1:2000 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2003, and conflicting national standards shall be withdrawn at the latest by January 2005.

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 standard.

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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

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## General modification

In the title, and in the text of the standard, we replace "anti-glare systems" by "anti-glare screens".

### 4.4.2 Metallic elements

Replaced the last sentence " After exposure of the metallic elements of the anti-glare system to the salt spray test, as described in ISO 9227, there shall be no evidence of corrosion, such as rust stains or blistering of the coating." by the following:

"Hot dipped galvanised steel components shall conform to ISO 1459 and ISO 1461."

## 4.5 Effectiveness with respect to glare

### 4.5.1. General

Add the following at the end of 4.5.1 :

"Two types of products are distinguished:

- . those designed in order to "block out all the incident rays". They have to comply with the geometrical condition  $\tan \alpha_j \geq 0,33$ . This condition is checked by calculation (4.5.2);
- . those which do not comply with the condition  $\tan \alpha_j \geq 0,33$ , designed in order to "block out partially the incident rays". They have to fulfil the threshold value indicated in 4.5.3. This characteristic is determined by test (4.5.3)".

## 5 Marking

To make the following modification on the first paragraph "Each anti-glare screen shall carry the following information, affixed in a readable way on a screen element at least every four meters over the length of the device.

## 6 Evaluation of conformity

(Clause to be added to the standard)

### 6.0 General

The evaluation of conformity is based on :

- . initial type testing ;
- . factory production control.

### 6.1 Initial type testing

#### 6.1.1 Controlled elements

The evaluation of conformity relates to the following elements:

**EN 12676-1:2000/A1:2003 (E)**

a) harmonised characteristics, dependent on the strength of the horizontal loads and the capability of filtering of the light :

- . resistance to wind, in accordance with the indications of 4.7;
- . light screening capability, in accordance with the indications of 4.5.2 and 4.5.3;
- . durability of light screening capability in screens with synthetics material in accordance with the indications of 4.4.1
- . durability of light screening capability in screens with metallic elements in accordance with the indications of subclause 4.4.2.
- . durability of resistance to wind in screens with synthetics material in accordance with the indications of 4.4.1
- . durability of resistance to wind in screens with metallic elements in accordance with the indications of 4.4.2.

b) Other characteristics (not harmonised according to the mandate)

- . attachment unit, in accordance with the specifications of 4.1;
- . provisions with respect to maintenance in conformity with the indications of 4.2;
- . characteristics of accessibility in conformity with the indications of 4.3;
- . side visibility, in accordance with the specifications of 4.6;

**6.1.2 Nature of control**

<https://standards.iteh.ai/catalog/standards/sist/3ff2648c-2370-4aa1-b0fa-f7e6797a3e96/sist-en-12676-1-2002-a1-2004>

The manufacturer specifies the conditions that have guided the choice of the prototype, and that guaranty the representativeness of sample tested compared to the production.

He provides description of the product (nature of constituents including raw materials, geometrical dimensions), to allow the traceability of the product and its constituents.

A new test of the type is necessary for any modification of:

- . form;
- . nature of materials;
- . method of manufacture, for synthetic materials;
- . conditions of fixing on the support.

This new test relates to the characteristics or performances influenced by this modification:

Modification	characteristics to be tested
form	. capability of filtering of the light
nature of material	. wind resistance . durability
method of manufacture (for synthetic materials)	. wind resistance . durability
fixing on the support	. wind resistance . durability

### 6.1.3 Report of test

The result of initial type testing is the subject of a detailed report, which includes:

- . name and address of the manufacturer or his agent established in the Economic European area;
- . place of production;
- . detailed description of the product (identification, use, precise geometrical characteristics, material, protection against corrosion, conditions of affixing on the support, etc.);
- . requirement with which the product shall be in conformity;
- . results of the tests, observations or evaluations, relating to characteristics identified in 6.1;
- . possible conditions applicable to the use of the product;
- . conditions and period of validity of the test report;
- . name and responsibility of the person authorised to sign the report of test.

## 6.2. Factory production control

### 6.2.1 Aim of the control

The manufacturer is responsible for the organization of the effective implementation of his system of control of production in factory. The aim of this control is to give confidence in the conformity of the product. It is appropriate, for this reason:

- . to consign in writing the tasks and responsibilities for each person involved in the control of the production;
- . to write and to keep the documents defining the control of production in factory.

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The factory production control include:

- . identification of the raw materials allowing the traceability;
- . controls of
  - . geometrical dimensions
  - . process used to make the product
  - . systems used to affix occultation elements on the support.

The tests are in conformity with the tests envisaged by the present standard, for the characteristics concerned.

The origin of the raw materials and the results of controls of the production in factory shall be recorded in the register of the manufacturer. The description of the product, the date of manufacture, the process used to make the product, the test results and the criteria of acceptance shall be consigned in the register aimed by the person responsible for the control.

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**6.2.3 Traceability**

The manufacturer or his agent established in the EEA records the description of the product, including the details and characteristic of manufacture. The name of the customer who first sold the product is retained .



## Annex ZA (informative)

### Clauses of this European standard addressing the provisions of EU Construction Products Directive

#### ZA.1 Scope and relevant characteristics

This European Standard has been prepared under Mandate M/111 "Circulation Fixtures" given to CEN by the European Commission and the European Free Trade Association.

The clauses of this, and where relevant another, European standard shown in this annex meet the requirements of the mandate given under the EU Construction Products Directive (89/106/EEC).

Compliance with these clauses confers a presumption of fitness of the anti-glare systems for the intended uses indicated herein.

**Warning:** Other requirements and other EU Directives, not affecting the fitness for intended uses, can be applicable to the *anti-glare screens for roads* falling within the scope of this European Standard.

In addition to any specific clauses relating to dangerous substances contained in this Standard, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the EU Construction Products Directive, these requirements need also to be complied with, when and where they apply.

Note: an informative database of European and national provisions on dangerous substances is available at the Construction web site on EUROPA (CREATE, accessed through <http://europa.eu.int>)."

This annex establishes the conditions for the CE marking, of the *anti-glare screens for roads* intended for the uses indicated in Table ZA.1 and the relevant clauses applicable:

The scope of this annex is defined by Table ZA.1.