



SLOVENSKI STANDARD
SIST EN 12899-2:2008/kFprA1:2012
01-december-2012

Stalna vertikalna cestna signalizacija - 2. del: Signalizacija z notranjo osvetlitvijo (TTB)

Fixed, vertical road traffic signs - Part 2: Transilluminated traffic bollards (TTB)

Ortsfeste, vertikale Straßenverkehrszeichen - Teil 2: Innenbeleuchtete Verkehrsleitsäulen (TTB)

Signaux fixes de signalisation routière verticale - Partie 2: Bornes lumineuses

Ta slovenski standard je istoveten z: EN 12899-2:2007/FprA1

ICS:

93.080.30	Cestna oprema in pomožne naprave	Road equipment and installations
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SIST EN 12899-2:2008/kFprA1:2012 **en,fr,de**

EUROPEAN STANDARD
NORME EUROPÉENNE
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FINAL DRAFT
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English Version

Fixed, vertical road traffic signs - Part 2: Transilluminated traffic bollards (TTB)

Signaux fixes de signalisation routière verticale - Partie 2:
Bornes lumineuses

Ortsfeste, vertikale Straßenverkehrszeichen - Teil 2:
Innenbeleuchtete Verkehrsleitsäulen (TTB)

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 226.

This draft amendment A1, if approved, will modify the European Standard EN 12899-2:2007. If this draft becomes an amendment, 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.

This draft amendment was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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EN 12899-2:2007/FprA1:2012 (E)

Foreword

This document (EN 12899-2:2007/FprA1:2012) has been prepared by Technical Committee CEN/TC 226 "Road equipment" the secretariat of which is held by AFNOR.

This document is currently submitted to the Unique Acceptance Procedure.

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.

The main reason for this amendment is to incorporate in the series of existing standards EN 12899:2007 (Parts 1 to 5), a new standard EN 12899-6, which deals with the visual performance of retroreflective sign face materials.

1 Modification to the Contents

Update the table of contents.

2 Modifications to the Foreword

Insert the following text as 3rd paragraph:

"The main reason for this amendment is to incorporate in the series of existing standards EN 12899:2007 (Parts 1 to 5), a new standard EN 12899-6, which deals with the visual performance of retroreflective sign face materials."

Replace the introductory sentence to the list of parts, as given in paragraph 6, with the following text:

"This document is a European Standard in the series of standards EN 12899 on "Fixed, vertical road traffic signs", with the followings parts:"

In paragraph 6, add "Part 6: Performance of retroreflective sign face materials" to the end of the list.

3 Modifications to the Introduction

Replace paragraph 1 with the following:

"This European Standard is designed for use by manufacturers, who are placing their transilluminated traffic bollards on the market, as well as for road authorities and private developers who wish to use these devices."

Delete paragraph 2 completely.

4 Modifications to Clause 1

Replace paragraph 1 with the following:

"This European Standard specifies the requirements for transilluminated traffic bollards (TTBs), including their fixings, which may incorporate traffic signs (type 1 TTB) or may support traffic signs (type 2 TTB) to be used in traffic circulation areas. It specifies also corresponding test methods, evaluation of conformity and marking.

NOTE 1 Unless otherwise stated, the provisions in this European Standard apply to both, type 1 TTBs and type 2 TTBs."

Add another new note after this paragraph:

"NOTE 2 Provisions for the evaluation of conformity with regards to initial type testing (ITT) are further specified in EN 12899-5; provisions with regards to factory production control (FPC) are further specified in EN 12899-4."

Delete paragraphs 2, 3, 4, 5 and 7 completely.

Replace paragraph 6 and the note after it with the following:

"This European Standard does not cover:

–transilluminated traffic bollards of similar function, but without transillumination or less than 600 mm in height;

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–foundations to support the loads to be carried.”.

5 Modifications to Clause 2

Replace “EN 12899-1:2007” with “EN 12899-1:2007+A1:2013” in Clause 2 and throughout the document.

Add reference to:

“EN 12899-6:2013, *Fixed vertical road traffic signs — Part 6: Retroreflective sign face materials*”.

Delete the reference to EN ISO 9001.

6 Modification to Clause 4

Replace the title “General” with “Requirements for TTB”.

7 Modifications to 4.1.1.1

Add at the end of the text of paragraph 1 the following:

“and declared as relevant class given therein.”

In Table 1, add “class” at the end of its title.

8 Modification to 4.2.2

Delete Table 3 and replace with the following new one:

“Table 3 — Chromaticity coordinates and luminance factor

Location of TTB	Requirement clause
Opaque areas	EN 12899-1:2013+A1:2007, 7.3.1.3
Retroreflective areas	EN 12899-6:2013, Clause 5
Transilluminated areas	EN 12899-1:2013+A1:2007, 7.3.1.3

”

9 Modifications to 4.2.3.2.1

Replace in the 1st and 2nd paragraphs “EN 12899-1:2007, Table 19” with “EN 12899-1:2007+A1:2013 Table 14” and “EN 12899-1:2007, Table 21” with “EN 12899-1:2007+A1:2013 Table 16”.

In the 3rd paragraph, replace “EN 12899-1:2007, Table 20” with “EN 12899-1:2007+A1:2013 Table 15”

10 Modifications to 4.2.3.2.2

Replace in the 1st paragraph "EN 12899-1:2007, Table 19" with "EN 12899-1:2007+A1:2013 Table 14" and "EN 12899-1:2007, Table 21" with "EN 12899-1:2007+A1:2013 Table 16".

Replace in the 2nd paragraph "EN 12899-1:2007, Table 20" with "EN 12899-1:2007+A1:2013 Table 15".

11 Modifications to 4.2.4

Replace the title "Retroreflective material" with "Retroreflectivity".

In paragraph 1 delete "EN 12899-1:2007, Table 4" and replace it with "EN 12899-6:2013, Clause 4".

Add the following note after paragraph 1:

"NOTE When specifying the required application and retroreflection performance classes reference to national specifications will normally be made."

12 Modification to 4.3.1

Replace the title "Static loading" with "Static resistance to deflection".

13 Modification to 4.3.1.3

In the 1st sentence, add the expression ", measured after each test," between "extremity" and "shall".

14 Modification to 4.3.3

In the 1st paragraph, delete "and Table 15".

15 Modifications to 4.3.4

Replace the title "Durability of visual performance" with "Resistance to UV radiation".

In the 1st paragraph, add the expression "for accelerated natural weathering," between "5.6.7," and "there".

16 Modification to 4.3.5

Replace the title "Protection against foreign bodies, dust and water" with "Resistance to penetration of dust and water".

17 Modification to 5.5

Delete "EN 12899-1:2007, 4.1.1.3" and replace with "EN 12899-6:2013, Clause 5".

EN 12899-2:2007/FprA1:2012 (E)**18 Modification to 5.6**

Replace the title "Deflection test" with "Physical and durability testing".

19 Modification to 5.6.5.2.2

In the 1st sentence, add the expression "speed of" between "at" and "5 m.s⁻¹".

20 Modification to 5.6.6

Replace the whole sub-clause 5.6.6 with the following:

"5.6.6 Dangerous substances

National regulations on dangerous substances may require verification and declaration on release, and sometimes content, when construction products covered by this standard are placed on those markets.

In the absence of European harmonized test methods, verification and declaration on release/content should be done taking into account national provisions in the place of use.

NOTE An informative database covering European and national provisions on dangerous substances is available at the Construction web site on EUROPA accessed through:

<http://ec.europa.eu/enterprise/construction/cpd-ds/>

21 Modifications to 5.6.7

Replace the title "Natural weathering" with "Resistance to UV radiation".

Before the 1st paragraph add the following new paragraph:

"For retroreflective materials tests shall be done in accordance with EN 12899-6:2013, Clauses 6 and 7."

At the beginning of the existing paragraph 1 delete "Test" and replace it with "For other materials, test".

22 Modification to Clause 7

Move the whole clause before Clause 6 and replace the existing text with the following:

"6.1 General

The conformity of a product (i.e. transilluminated traffic bollard) with the requirements of this standard and with the declared performances for the stated characteristics (e.g. values, classes) shall be demonstrated by:

- initial type testing,
- factory production control by the manufacturer, including product assessment.

For the purposes of testing, the product may be grouped into families of products, where it is considered that the results for one or more characteristics from any one product within the family of the products are representative for that same characteristics for all products within that same family.

NOTE One product may be in different families for its different characteristics.

6.2 Initial type testing

The product shall be subjected to initial type testing according to EN 12899-5 to show conformity with this European Standard.

6.3 Factory production control

The product shall be subjected to initial type testing according to EN 12899-4 to show conformity with this European Standard.”

23 Modification to Clause 6

Renumber the whole clause into Clause 7.

24 Modification to 6.1 (new 7.1)

Add the following second note after the existing note:

“NOTE 2 Where ZA.3 requires the CE marking to be accompanied by the same information as required by this clause, the requirements of this clause are met.”

Renumber "NOTE 1" into "NOTE 2".

25 Modification to Clause 8

Delete the whole clause.

26 Modification to Annex ZA

Replace the whole Annex ZA with the following one:

"