

## **Tänavavalgustuspostid. Osa 6: Nõuded alumiiniumist tänavavalgustuspostidele**

Lighting columns - Part 6: Requirements for  
aluminium lighting columns

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 40-6:2002 sisaldab Euroopa standardi EN 40-6:2002 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.09.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 40-6:2002 consists of the English text of the European standard EN 40-6:2002.</p> <p>This document is endorsed on 18.09.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b></p> <p>This European Standard specifies requirements for aluminium lighting columns. It includes materials and conformity control. It applies to post top columns not exceeding 20 m height for post top lanterns and to columns with brackets not exceeding 18 m height for side entry lanterns. This European Standard specifies performance related to the essential requirements of resistance to horizontal (wind) loads and performance under vehicle impact (passive safety) in support of the Essential Requirement No 4 Safety in use measured according to the corresponding test methods included in this European Standard or available in separate European Standards. It provides for the evaluation of conformity of the products to this European Standard.</p>	<p><b>Scope:</b></p> <p>This European Standard specifies requirements for aluminium lighting columns. It includes materials and conformity control. It applies to post top columns not exceeding 20 m height for post top lanterns and to columns with brackets not exceeding 18 m height for side entry lanterns. This European Standard specifies performance related to the essential requirements of resistance to horizontal (wind) loads and performance under vehicle impact (passive safety) in support of the Essential Requirement No 4 Safety in use measured according to the corresponding test methods included in this European Standard or available in separate European Standards. It provides for the evaluation of conformity of the products to this European Standard.</p>
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ICS 77.150.10, 93.080.40

**Võtmesõnad:** acceptance testing, conformity tests, lamp posts, pole- top lantern, road lighting, side entry luminaires, specification, steel towers, steels, street lighting, strength provings, stress, testing, welded joints, welding, welding processes, wind loading, wind pressure

English version

## Lighting columns - Part 6: Requirements for aluminium lighting columns

Candélabres d'éclairage public - Partie 6: Exigences pour les candélabres d'éclairage public en aluminium

Lichtmaste - Teil 6: Anforderungen für Lichtmaste aus Aluminium

This European Standard was approved by CEN on 25 February 2002.

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



EUROPEAN COMMITTEE FOR STANDARDIZATION  
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## Foreword

This document EN 40-6:2002 has been prepared by Technical Committee CEN/TC 50 "Lighting columns and spigots", 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 October 2002, and conflicting national standards shall be withdrawn at the latest by January 2004.

This document supercedes EN 40-6:2000.

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 89/106/EEC.

For relationship with EU Directive 89/106/EEC see informative annex ZA which is an integral part of this document.

In this standard the annexes A and B are informative and the annex C is normative.

Wherever reference is made to classes, they are considered to be technical classes and not classes according to 3(2) of the Construction Products Directive.

This European Standard is the sixth in a series relating to specifications for lighting columns. At present the Parts of this standard are as follows:

Part 1: Definitions and terms

Part 2: General requirements and dimensions

Part 3: Design and verification

- 3-1: Specification for characteristic loads
- 3-2: Verification by testing
- 3-3: Verification by calculation

Part 4: Requirements for reinforced and prestressed concrete lighting columns

Part 5: Requirements for steel lighting columns

Part 6: Requirements for aluminium lighting columns

Part 7: Requirements for fibre reinforced polymer composite lighting columns

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## **1 Scope**

This European Standard specifies requirements for aluminium lighting columns. It includes materials and conformity control. It applies to post top columns not exceeding 20 m height for post top lanterns and to columns with brackets not exceeding 18 m height for side entry lanterns.

This European Standard specifies performance related to the essential requirements of resistance to horizontal (wind) loads and performance under vehicle impact (passive safety) in support of the Essential Requirement No 4 Safety in use measured according to the corresponding test methods included in this European Standard or available in separate European Standards.

It provides for the evaluation of conformity of the products to this European Standard.

## **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 (including amendments).

EN 40-1	Lighting columns - Part 1: Definitions and terms.
prEN 40-2:1999	Lighting columns - Part 2: General requirements and dimensions.
EN 40-3-1	Lighting columns - Design and verification - Part 3-1: Specification for characteristic loads.
EN 40-3-2	Lighting columns - Design and verification - Part 3-2: Verification by testing.
prEN 40-3-3	Lighting columns - Design and verification - Part 3-3: Verification by calculation.
EN 288-1	Specification and approval of welding procedures for metallic materials – Part 1: General rules for fusion welding.
EN 288-2	Specification and approval of welding procedures for metallic materials – Part 2: Welding procedures specification for arc welding.

EN 288-4	Specification and approval of welding procedures for metallic materials – Part 4: Welding procedure tests for the arc welding of aluminium and its alloys.
EN 288-8	Specification and approval of welding procedures for metallic materials – Part 8: Approval by a pre-production welding test.
EN 485-3	Aluminium and aluminium alloys - Sheet, strip and plates -Part 3: Tolerances on shape and dimensions for hot rolled products.
EN 485-4	Aluminium and aluminium alloys - Sheet, strip and plates – Part 4: Tolerances on shape and dimensions for cold rolled products.
EN 571-1	Non-destructive testing – Penetrant testing – General principles.
EN 755-7	Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 7: Seamless tubes, tolerances on dimension and form.
EN 755-8	Aluminium and aluminium alloys - Extruded rod/bar, tube and profiles - Part 8: Porthole tubes, tolerances on dimensions and form.
EN 970	Non-destructive examination of fusion welds - Visual examination.
EN 1011-1	Welding - Recommendations for welding of metallic materials – General guidance for arc welding.
EN 1011-4	Welding - Recommendations for welding of metallic materials - Arc welding of aluminium and aluminium alloys.
EN 1706	Aluminium and aluminium alloys - Castings - Chemical composition and mechanical properties.
EN 10025	Hot rolled products of non-alloy structural steels - Technical delivery conditions.
EN 10204	Metallic products - Types of inspection documents.
EN 12767	Passive safety of support structures for road equipment – Requirements and test methods.
EN 50102	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code).

### 3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 40-1 apply.