

## **Wood poles for overhead lines - Durability requirements**

Wood poles for overhead lines - Durability  
requirements

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 12465:2002 sisaldab Euroopa standardi EN 12465:2001 ingliskeelset teksti.	This Estonian standard EVS-EN 12465:2002 consists of the English text of the European standard EN 12465:2001.
Käesolev dokument on jõustatud 14.03.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.	This document is endorsed on 14.03.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

<b>Käsitlusala:</b> This standard specifies the requirements for the durability and preservative treatment of wood poles for overhead transmission and telecommunication lines.	<b>Scope:</b> This standard specifies the requirements for the durability and preservative treatment of wood poles for overhead transmission and telecommunication lines.
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ICS 29.240.20; 79.080

**English version**

**Wood poles for overhead lines  
Durability requirements**

Poteaux en bois pour lignes aériennes – Exigences de durabilité

Holzmasse für Freileitungen – Anforderungen an die Dauerhaftigkeit

This European Standard was approved by CEN on 2001-10-13.

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.

The European Standards exist 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, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 124 "Structural timber", the secretariat of which is held by DS.

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 May 2002, and conflicting national standards shall be withdrawn at the latest by May 2002.

This standard includes an informative annex A on a scheme for sampling preservative-treated timber.

This standard contains a Bibliography.

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

## Introduction

This standard is one of five standards covering requirements for visual or machine grading, test methods, determination of characteristic values, methods of specifying durability and sizes.

This standard is concerned with the durability characteristics of wood poles for overhead power and telecommunication lines. It assumes that all such poles will be constructed from round timber in which the finished product comprises either a central core of heartwood surrounded by a zone of sapwood or the heartwood only. Such assumptions dictate that where sapwood is present preservative treatment is normally required in order to provide the poles with sufficient enhanced durability unless the amount of sapwood present is such that its loss would not compromise the integrity of the pole during its service life, and the heartwood has sufficient natural durability as required in this standard.

NOTE Some timbers (e.g. Fir and Spruce) do not allow a ready differentiation between heartwood and sapwood. EN 351-1 specifies how such timbers should be treated when preservation is required.

## 1 Scope

This European Standard specifies the requirements for durability and preservative treatment of wood poles for overhead transmission and telecommunication lines.

This standard covers only single poles under cantilever or compression loading. For example, this standard does not cover poles used as beams.

The provision of poles for use in any overhead line or cable infrastructure shall take into account a range of factors not covered by this standard which will necessitate the specification by the end user of complementary and synonymous attributes to those defined in this standard. This refers to requirements for a number of factors including safety, overhead plant, handling, fittings, installation machinery and working practices including climbing.

No attempt has been made to quantify the service life that may be expected from a pole as this will depend on its geographical location, the associated climate of its service environment and either the natural durability of the heartwood of the species selected, or the combination between selection of species, preservative type, and requirements of penetration and retention and any incised zones, any of which may be specified by the purchaser.

## 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 252, *Field test method for determining the relative protective effectiveness of a wood preservative in ground contact.*

EN 350-1, *Durability of wood and wood-based products. Natural durability of solid wood - Part 1: Principles of testing and classification of the natural durability of wood.*

EN 350-2, *Durability of wood and wood-based products. Natural durability of solid wood - Part 2: Guide to natural durability and treatability of selected wood species of importance in Europe.*

EN 351-1:1995, *Durability of wood and wood-based products. Preservative-treated solid wood - Part 1: Classification of preservative penetration and retention.*

EN 351-2:1995, *Durability of wood and wood-based products. Preservative-treated solid wood - Part 2: Guidance on sampling for analysis of preservative-treated wood.*

EN 599-1, *Durability of wood and wood-based products. Performance of wood preservatives determined by biological tests - Part 1: Specification according to hazard class.*

ISO 2859-1, *Sampling procedures for inspection by attributes - Part 1: Sampling plans indexed by acceptable quality level (AQL) for lot-by-lot inspection.*