



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 12509:2002

ICS 29.240.20  
79.080

**TIMBER POLES FOR OVERHEAD LINES -  
TEST METHODS - DETERMINATION OF  
MODULUS OF ELASTICITY, BENDING  
STRENGTH, DENSITY AND MOISTURE  
CONTENT**

National Standards  
Authority of Ireland  
Dublin 9  
Ireland

Tel (01) 807 3800  
Tel (01) 807 3838

*This Irish Standard was  
published under the  
authority of the National  
Standards Authority of  
Ireland  
and comes into effect on  
January 18 2002*

**NO COPYING WITHOUT NSAI  
PERMISSION EXCEPT AS  
PERMITTED BY COPYRIGHT  
LAW**

© NSAI 2002

**Price Code G**

Údarás um Chaighdeáin Náisiúnta na hÉireann



EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 12509**

November 2001

ICS 29.240.20; 79.080

English version

**Timber poles for overhead lines - Test methods - Determination  
of modulus of elasticity, bending strength, density and moisture  
content**

Poteaux en bois pour lignes aériennes - Méthodes d'essai -  
Détermination du module d'élasticité, de la résistance à la  
flexion, de la masse volumique et de la teneur en humidité

Holzmasse für Freileitungen - Prüfverfahren - Bestimmung  
des Elastizitätsmoduls, der Biegefestigkeit, der Dichte und  
des Feuchtigkeitsgehalts

This European Standard was approved by CEN on 13 October 2001.

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



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

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

# EN 12509:2001 (E)

## Contents

|   | page      |
|---|-----------|
| <b>Foreword</b> .....   | <b>3</b>  |
| <b>Introduction</b> .....   | <b>4</b>  |
| <b>1 Scope</b> .....  | <b>5</b>  |
| <b>2 Normative references</b> .....   | <b>5</b>  |
| <b>3 Terms and definitions</b> .....  | <b>5</b>  |
| <b>4 Symbols</b> .....  | <b>6</b>  |
| <b>5 Requirements for determination of sizes, moisture content and density</b> .....  | <b>7</b>  |
| 5.1 Determination of sizes .....  | 7         |
| 5.2 Determination of moisture content .....   | 7         |
| 5.3 Determination of density.....   | 7         |
| <b>6 Test method for bending properties</b> .....                                     | <b>8</b>  |
| 6.1 Principle.....  | 8         |
| 6.2 Preparation .....   | 8         |
| 6.3 Apparatus .....   | 9         |
| 6.4 Procedure.....  | 9         |
| 6.5 Results .....   | 10        |
| 6.6 Test report.....  | 11        |
| 6.6.1 Test material .....   | 11        |
| 6.6.2 Test procedure.....   | 11        |
| 6.6.3 Test results .....  | 11        |
| <b>Annex A (informative) Example of suitable cantilever bending test method</b> ..... | <b>13</b> |
| <b>Bibliography</b> .....   | <b>14</b> |

## **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 describing a suitable test method for cantilever bending.

This standard includes 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.

## **EN 12509:2001 (E)**

### **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 is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-