

Moisture content of a piece of sawn timber - Part 2: Estimation by electrical resistance method

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Estimation by electrical resistance method

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13183-2:2002 sisaldab Euroopa standardi EN 13183-2:2002 + AC:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.05.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13183-2:2002 consists of the English text of the European standard EN 13183-2:2002 + AC:2003.</p> <p>This document is endorsed on 16.05.2002 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>Käsitlusala: This European Standard defines a non-destructive method for estimating the moisture content of a piece of sawn timber using an electrical resistance moisture meter. This standard applies to sawn timber, and timber which has been planed or mechanically surfaced by other means.</p>	<p>Scope: This European Standard defines a non-destructive method for estimating the moisture content of a piece of sawn timber using an electrical resistance moisture meter. This standard applies to sawn timber, and timber which has been planed or mechanically surfaced by other means.</p>
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ICS 79.040

Võtmesõnad: electric measurements, electrical measurement, logs, measurements of humidity, measuring techniques, moisture, moisture contents, reference methods, sawn timber, swelling, wood, woodworking

ICS 79.040

English version

**Moisture content of a piece of sawn timber - Part 2: Estimation
by electrical resistance method**

Teneur en humidité d'une pièce de bois scié - Partie 2:
Estimation par méthode électrique par résistance

Feuchtegehalt eines Stückes Schnittholz - Teil 2:
Schätzung durch elektrisches Widerstands-Messverfahren

This European Standard was approved by CEN on 29 December 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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document EN 13183-2 has been prepared by CEN/TC 175 "Round and sawn timber", the secretariat of which is held by AFNOR.

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 October 2002.

This standard is one of a series, dealing with methods of measurement for round timber and sawn timber.

Other standards in this series are:

- | | | |
|------------|---|--|
| EN 13183-1 | : | Moisture content of a piece of sawn timber ~ Part 1: Determination by oven dry method. |
| EN 1309-1 | : | Round and sawn timber - Method of measurement of dimensions - Part 1: Sawn timber. |
| EN 1310 | : | Round and sawn timber - Method of measurement of features. |
| EN 1311 | : | Round and sawn timber - Method of measurement of biological degrade. |

Annex A is informative.

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 defines a non-destructive method for estimating the moisture content of a piece of sawn timber using an electrical resistance moisture meter.

This standard applies to sawn timber, and timber which has been planed or mechanically surfaced by other means.

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 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 844-1, *Round and sawn timber - Terminology - Part 1: General terms common to round timber and sawn timber.*

EN 844-3, *Round and sawn timber - Terminology - Part 3: General terms relating to sawn timber.*

EN 844-4, *Round and sawn timber - Terminology - Part 4: Terms relating to moisture content.*

EN 844-6, *Round and sawn timber - Terminology - Part 6: Terms relating to dimensions of sawn timber.*

EN 844-7, *Round and sawn timber - Terminology - Part 7: Terms relating to anatomical structure of timber.*

EN 844-9, *Round and sawn timber - Terminology - Part 9: Terms relating to features of sawn timber.*

EN 844-12, *Round and sawn timber - Terminology - Part 12: Additional terms and general index.*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions of EN 844-1, EN 844-3, EN 844-4, EN 844-6, EN 844-7, EN 844-9 and EN 844-12 apply.

4 Limits of application

This method is suitable for timber having a moisture content between approximately 7 % and 30 %.

Some types of preservative, flame retardant, heat or chemical treatments will affect the accuracy of the measurement and require special calibration of the instrument for each type of treatment.

5 Apparatus

Electrical resistance moisture meter equipped with insulated electrodes, graduated up to 30 % in units of maximum 1 % moisture content.

The meter shall be equipped with settings or tables to correct for wood species and temperature.

6 Compliance

Before taking measurements the electrical resistance moisture meter shall be checked according to the instructions provided by the supplier of the instrument.

NOTE For checking the accuracy of the instrument, resistance check boxes are available.

7 Procedure

Use the following procedure for estimating the moisture content of individual pieces included in lots or consignments.

Correct the electrical resistance moisture meter reading to take into consideration the temperature and species of the timber being measured.