

Ümarpuit ja saematerjal - Omaduste määramise meetod

Round and sawn timber - Method of measurement of
features

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

| | |
|--|---|
| <p>Käesolev Eesti standard EVS-EN 1310:2001 sisaldab Euroopa standardi EN 1310:1997 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 18.05.2001 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p> | <p>This Estonian standard EVS-EN 1310:2001 consists of the English text of the European standard EN 1310:1997.</p> <p>This document is endorsed on 18.05.2001 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> |
|--|---|

| | |
|--|----------------------|
| <p>Käsitlusala: See standard määrab kindlaks mõõtmismeetodid omaduste tarvis, millega tuleb arvestada saetud ja töödeldud materjali ning ümarpuidu visuaalsel sorteerimisel välisilme järgi või materjali mehaaniliste omaduste hindamisel. Standard ei kehti ehituspuidu tugevussorteerimisel (vt EN 581 ja EN 519).</p> | <p>Scope:</p> |
|--|----------------------|

ICS 79.040

Võtmesõnad: mõõtmine, puit, rikked, saematerjal, saepalgid, välisilme

ICS 79.040

Descriptors: Timber, features, measurement.

English version

Round and sawn timber
Method of measurement of features

Bois ronds et bois sciés – Méthode de
mesure des singularités

Rund- und Schnittholz – Messung der
Merkmale

This European Standard was approved by CEN on 1997-03-05.

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 Central Secretariat 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 Central Secretariat 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

Central Secretariat: rue de Stassart 36, B-1050 Brussels

Content

| | |
|-----------------------------------|----|
| Foreword | 3 |
| 1 Scope | 3 |
| 2 Normative references | 3 |
| 3 Definitions | 4 |
| 4 Sawn and processed timber | 4 |
| 4.1 Knots | 4 |
| 4.2 Resin pocket | 10 |
| 4.3 Reaction wood | 10 |
| 4.4 Grain | 11 |
| 4.5 Rate of growth | 12 |
| 4.6 Bark pocket | 13 |
| 4.7 Sapwood | 13 |
| 4.8 Wane | 14 |
| 4.9 Fissure | 15 |
| 4.10 Warp | 15 |
| 5 Round timber | 17 |
| 5.1 Knots | 17 |
| 5.2 Fissures | 17 |
| 5.3 Sweeps | 18 |
| 5.4 Ovality | 19 |
| 5.5 Taper | 19 |
| 5.6 Spiral grain | 20 |
| 5.7 Compression wood | 20 |
| 5.8 Rate of growth | 20 |
| 5.9 Double pith | 20 |
| 5.10 Sapwood | 20 |
| 5.11 Included sapwood | 20 |
| 5.12 Eccentric pith | 21 |
| 5.13 False heartwood | 21 |
| 5.14 Dry side | 21 |
| 5.15 Parasitic plant | 21 |
| 5.16 Carbonized wood | 21 |
| 5.17 Cancer | 22 |
| 5.18 Bird peck | 22 |
| 5.19 Other damage | 22 |
| 5.20 Tapping cut | 22 |
| 5.21 Foreign bodies | 22 |

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 175 "Round and sawn timber", the Secretariat of which is held by AFNOR.

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

Other standards in this series are :

| | | |
|---------------|---|---|
| EN 1309 – 1 | : | Round and sawn timber - Method of measurement of dimensions Part 1: Sawn timber |
| prEN 1309 – 2 | : | Round and sawn timber - Method of measurement of dimensions Part 2: Round timber |
| EN 1311 | : | Round and sawn timber - Method of measurement of biological degrade. |

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 1997, and conflicting national standards shall be withdrawn at the latest by October 1997.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This standard specifies the methods of measuring features taken into account in the visual grading of sawn, processed and round timber for appearance or to assess its mechanical properties. It does not apply to the strength grading of structural timber (see EN 518 and EN 519).

This standard applies to hardwood and softwood sawn timber, both square edged and unedged, to processed timber and to round timber. This standard does not apply to tropical timber.

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.

| | |
|------------|--|
| EN 844 – 1 | Round and sawn timber – Terminology – Part 1: General terms common to round timber and sawn timber |
| EN 844 – 2 | Round and sawn timber – Terminology – Part 2: General terms relating to round 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 – 5 | Round and sawn timber – Terminology – Part 5: Terms relating to dimensions of round timber |
| 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 – 8 | Round and sawn timber – Terminology – Part 8: Terms relating to features of round timber |
| EN 844 – 9 | Round and sawn timber – Terminology – Part 9: Terms relating to features of sawn timber |
| prEN 844 – 10 | Round and sawn timber – Terminology – Part 10: Terms relating to stain and fungal attack |
| prEN 844 – 11 | Round and sawn timber – Terminology – Part 11: Terms relating to degrade by insects |
| EN 518 | Structural timber – Grading – Requirements for visual strength grading standards |
| EN 519 | Structural timber – Grading – Requirements for machine strength graded timber and grading machines |

3 Definitions

For the purposes of this standard the definitions in the standards listed in clause 2 apply.

4 Sawn and processed timber

4.1 Knots

For the purposes of this standard, knots in sawn timber are classified according to their shape, size and position. Size is derived from the formulae given below and expressed in millimetres or as a percentage of a dimension of the surface where the knot occurs. The following symbols are used in the formulae, with suffixes as required:

d is the size, in millimetres;

a is the width on the minor axis, in millimetres;

b is the width on the major axis, in millimetres.

Two methods for measuring knots are given : "General method" for appearance grading and "alternative method" where the strength of the piece is to be assessed. If strength grading is required, reference shall be made to EN 518 for visual grading and EN 519 for machine grading. When the standard is applied, it shall be stated whether the "general" or the "alternative" method is used.

4.1.1 General method

Consider each knot individually .

Measure knots on a part or all the surface of the face(s) or the edge(s) taken as specified by the grading rule used.

Figures 1 to 6 show the categories of knots that shall be measured. Each figure is accompanied by the corresponding formula that is generally the arithmetic average of the width on the minor (a) and major (b) axis of the knot ($d = (a + b)/2$). Then measure the width on the minor and the major axis and derive the size from the formula .