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Round and sawn timber – Determination of the batch volume of sawn timber

Trävaror – Sågat virke – Volymbestämning av ett parti sågat virke

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ICS 79.040

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Descriptors: wood, sawlogs, sawn timber content, measurements, calculation, volume

English version

**Round and sawn timber – Determination of the
batch volume of sawn timber**

Bois ronds et bois sciés – Détermination du
volume d'un lot de sciages

Rund- und Schnittholz – Bestimmung des
Losvolumens von Schnittholz

This European Standard was approved by CEN on 1996-12-27. 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.

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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 175 "Round and sawn timber", the Secretariat of which is held by AFNOR

This standard is one of a series concerning sawn timber.

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of an identical text or by endorsement, at the latest by August 1997, and conflicting national standards shall be withdrawn at the latest by August 1997.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 rules for the determination of the batch volume of sawn timber.

It applies to the volume of a batch of similar or dissimilar pieces of sawn softwood or hardwood.

This Standard applies to the following products defined in EN 844-3, for example :

- Rough-sawn timber (boules and square sawn)
- Regularized green timber
- Regularized dried timber
- Prepared timber
- Planed timber

regardless of whether or not the timber meets the requirements of any dimensional or qualitative standards.

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.

EN 844-3	Round and sawn timber - Terminology - Part 3 : General terms relating to sawn timber.
EN 975-1	Sawn timber - Appearance grading of hardwoods - Part 1 : Oak and beech.
EN 1309-1	Round and sawn timber - Method of measurement of dimensions - Part 1: Sawn timber.
prEN 1611-1	Wood - Softwood sawn timber - Visual grading - Part 1 : Criteria for quality standards.
prEN 1611-2	Sawn softwood - Visual grading - Part 2 : Quality grading for European Spruces and Firs.

3 General

3.1 The determination of the volume of sawn timber includes the taking of the dimensions and the calculation of volume.

The dimensions to be measured are : thickness, t , width, b , and length, l , which are always expressed in that order.

3.2 The calculation of volume is the arithmetical operation destined to determine the commercial volume of a piece or of a batch of pieces. The calculation methods for each case are defined below.

4 Basic rules

4.1 Measuring instruments

Use the measuring instruments defined in EN 1309-1.

4.2 Measurement of the dimensions of pieces

4.2.1 General

All dimensions are measured in mm.

4.2.2 Thickness and width

Thickness and width are measured according to EN 1309-1.

For products with target sizes, the thickness and width are given at the reference moisture content.

For products with dimensions contractually defined, the thickness and width at the contractual moisture content are given.

Permitted deviations are not taken into account.

4.2.3 Length

The length of a piece is measured in accordance with EN 1309-1: it is the shortest length of a piece.

4.3 Calculation of the volume of a piece

The volume of a sawn piece, V , is calculated by applying the formula :

$$V = t \times b \times l$$

where :

t the thickness, in metres to 3 decimals

b the width, in metres to 3 decimals

l the length, in metres to 3 decimals

Batches consisting of similar pieces are measured on the basis of the volume of a reference piece. If the volume of this piece is calculated as a separate operation, it shall be expressed in cubic metres to 4 decimals.

The volume of a piece, measured separately, is in m^3 to 3 decimals.