
Žagani les za industrijsko embalažo - Dovoljena odstopanja in prednostne mere

Sawn timber used in industrial packaging - Permitted deviations and preferential sizes

Schnittholz in Industriepackmitteln - Zulässige Abweichungen und Vorzugsmaße

Bois sciés utilisés dans l'emballage industriel - Ecartis admissibles et dimensions préférentielles

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ICS:

55.040	Tarabaklar, ambalaj malzemeleri ve aksesuarları	Packaging materials and accessories
79.040	Les, hlodovina in žagan les	Wood, sawlogs and sawn timber

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 12248

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English version

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Abweichungen und Vorzugsmaße

This European Standard was approved by CEN on 2 May 1999.

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.

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 Central Secretariat has the same status as the official versions.

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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 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of an identical text or by endorsement, at the latest by december 1999, and conflicting national standards shall be withdrawn at the latest by december 1999.

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 specifies permitted deviations and preferential sizes for sawn timber used in industrial packaging.

A range of cross-sections likely to be readily available, is given to assist both producers and users.

Preferential sizes are recommended for the manufacture of industrial packaging. They are considered as basic sizes at a moisture content of 20 %.

The standard also stipulates the use of electric moisture meters for the measurement of moisture content.

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This reference moisture content of 20 % does not prevent manufacturers from manufacturing industrial packaging with either dry or green timber.

1 Scope

This standard specifies permitted deviations (due to variability in sawing and processing) from target thicknesses and widths for sawn timber used in industrial packaging when measured at a defined reference moisture content.

It also gives preferential sizes of this 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 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 336		Structural timber - Coniferous and poplar - Sizes, permissible deviations
EN 844-4	1997	Round and sawn timber - Terminology - Part 4: Terms relating to moisture content
EN 844-6	1997	Round and sawn timber - Terminology - Part 6: Terms relating to dimensions of sawn timber
EN 1309-1		Round and sawn timber - Method of measurement of dimensions - Part 1: Sawn timber
prEN 13183-1		Round and sawn timber - Method of measurement of moisture content - Part 1: Method for determining moisture content of a piece of sawn timber (Oven-dry method)
prEN 13183-2		Round and sawn timber - Method of measurement of moisture content - Part 2: Method for estimating moisture content of a piece of sawn timber (Electrical method)

3 Definitions

For the purposes of this standard, the following definitions apply:

3.1 actual size : Size of a piece of sawn timber at the time of measurement [EN 844-6 : 1997].

3.2 moisture content : Mass of moisture in wood expressed as a percentage of its oven-dry mass [EN 844-4 : 1997].

3.3 moisture content size deviation : Difference between an actual size and the corresponding basic size, making allowance for the difference in size due to difference in moisture content according to this standard.

3.4 permitted dimensional deviations : The permissible variation of the actual size (length, width and/or thickness) from the referenced basic size resulting from sawing or processing.

3.5 target size, basic size : For the purposes of this standard, basic size and target size are the same.

3.5.1 target size : Size desired after a particular production process (at a specified moisture content) to which the permitted deviations are related [EN 844-6 : 1997].

3.5.2 basic size : Size by which sawn timber is known or specified at a stated moisture content [EN 844-6 : 1997].

4 Measurement

The measurement of the moisture content shall be carried out according to prEN 13183-1 or prEN 13183-2.

The reference moisture content for measurement is 20 %.

5 Changes in size due to changes in moisture content

Unless there is evidence to the contrary, it shall be assumed that the thickness and width of a piece of timber increase by 0,25 % for every 1 % of moisture content from 20 % up to 30 %, and decrease by 0,25 % for every 1 % of moisture content below 20 %. The above values are typical, regardless of the species.

6 Permitted deviations

The permitted deviations on thicknesses and widths at 20% moisture content are specified in table 1.

Table 1: Dimensions and their permitted deviations

Dimensions in millimetres.

Dimensions	Permitted deviations
Thickness and/or width \leq 100	+ 3 - 1
Thickness and/or width $>$ 100	+ 4 - 2
Component length	+ 1 - 3

NOTE 1: These permitted deviations are in accordance with class 1 of EN 336.

NOTE 2: More restrictive permitted deviations can be specified in contracts if necessary.

7 Preferential sizes**7.1 General**

The sizes are measured according to EN 1309-1.

7.2 Preferential sizes

Preferential sizes are given in table 2.

Table 2: Preferential sizes

Dimensions in millimetres

Basic cross-sections									
Thicknesses	Widths								
	75	100	125	150	175	200	225	250	300
16	x	x							
18	x	x	x	x					
22	x	x	x	x		x			
25	x	x	x	x	x	x			
32	x	x	x	x					
38	x	x	x	x	x	x	x	x	x
50	x	x	x	x	x	x	x	x	x
63	x	x	x	x	x	x	x		
75	x	x	x	x	x	x	x	x	x
100	x	x		x		x	x	x	x

NOTE: Other dimensions can also be used in national rules.