



SLOVENSKI STANDARD

SIST EN 13307-1:2007

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Les in leseni polizdelki za profile za nekonstrukcijsko uporabo - 1. del: Zahteve

Timber blanks and semi-finished profiles for non-structural uses - Part 1: Requirements

Holzkanteln und Halbfertigprofile für nicht tragende Anwendungen - Teil 1:
Anforderungen

Ebauches et profilés semi-finis en bois pour usages non structurels - Partie 1 :
Exigences

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Ta slovenski standard je istoveten z: ~~SIST EN 13307-1:2007~~ EN 13307-1:2006

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ICS:

79.080

Polizdelki iz lesa

Semi-manufactures of timber

SIST EN 13307-1:2007

en

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ICS 79.080

English Version

Timber blanks and semi-finished profiles for non-structural uses
- Part 1: Requirements

Ebauches et profilés semi-finis en bois pour usages non
structuels - Partie 1 : Exigences

Holzkanteln und Halbfertigprofile für nicht tragende
Anwendungen - Teil 1: Anforderungen

This European Standard was approved by CEN on 11 September 2006.

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.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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Foreword

This document (EN 13307-1:2006) 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 May 2007, and conflicting national standards shall be withdrawn at the latest by October 2007.

This Standard is one of a package to be implemented by 2007.10.31. The Standards included in the Package are:

	Standard Number	Title
1	prEN 942 Revised	Timber in joinery - General requirements
2	EN 13307-1	Timber blanks and semi-finished profiles for non-structural uses –Part 1: Requirements
3	EN 14220	Timber and wood-based materials in external windows, external door leaves and external doorframes – Requirements and specifications
4	EN 14221	Timber and wood-based materials in internal windows, internal door leaves and internal doorframes – Requirements and specifications

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Explanation

Standards 3 and 4 rely on both Standards 1 and 2, and Standard 2 relies on 1.

The revised prEN 942 contains changes which directly affect Standards 2, 3 and 4 and therefore shall be available before they can be used effectively.

NOTE Following the completion of the Technical Enquiry for prEN 13307-2 Timber blanks and semi-finished profiles for non-structural uses – Part 2: Production control, it has been agreed to remove this Standard from the package. As a result of the necessary changes it has been agreed to offer prEN 13307-2 as a CEN/TS.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

Introduction

This European Standard relates to semi-finished products intended to be used in a wide range of joinery products, including windows, doors and stairs. It provides a basis for contracts between the sellers of these semi-finished products and manufacturers of the end products. The specifier should be aware that not all of the characteristics defined and/or classified by this standard may be relevant in any given application, especially if those characteristics are subsequently made good by the manufacturer of the end product.

At the time of publication, no relevant test standard for delamination or for temperature stability of adhesives exists.

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1 Scope

This European Standard specifies requirements for timber blanks and semi-finished profiles for non-structural uses, including glued laminated and glued finger jointed products. This Standard gives specific requirements for dimensions, stability and moisture content. This Standard applies to hardwood and to softwood for use in joinery.

Production control requirements and tests are given in prCEN/TS 13307-2.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 844-3:1995, *Round and sawn timber - Terminology - Part 3: General terms relating to sawn timber*

prEN 942, *Timber in joinery - General requirements*

EN 1310, *Round and sawn timber – Method of measurement of features*

ENV 12169, *Criteria for the assessment of conformity of a lot of sawn timber*

EN 13183-1, *Moisture content of a piece of sawn timber – Part 1: Determination by oven dry method*

EN 13183-2, *Moisture content of a piece of sawn timber – Part 2: Estimation by electrical resistance method*

prCEN/TS 13307-2, *Timber blanks and semi-finished profiles for non-structural uses - Part 2: Production control and testing*

EN 13556, *Round and sawn timber - Nomenclature of timbers used in Europe*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 844-3:1995 and the following apply.

3.1

blank

semi-finished unplaned or planed piece of solid or laminated wood, with or without finger joints and/or butt joints, with a rectangular cross section

3.2

glued laminated product

blank or semi finished profile consisting of two or more lamella of solid, butt jointed or finger jointed wood glued together lengthways (i.e. not at right angles)

3.3

semi-finished profile

unplaned or planed piece of solid or glued laminated wood, finger jointed or not, with a specific cross section (e.g. L-, T- or Z-shape)

3.4

butt joint

joint in wood created by gluing two squared end faces of wood together

3.5

lamella

solid timber piece, usually of a thickness of more than 7 mm, glued lengthways to create thicker sections

NOTE 1 the piece may include finger joints and/or butt joints

NOTE 2 Thicknesses of not more than 7mm are called veneers and are defined in EN 313-2.

3.6

service class 1

characterised by a moisture content in the product corresponding to a temperature of 20 °C and the relative humidity of the surrounding air only exceeding 65 % for a few weeks of the year

3.7

service class 2

characterised by a moisture content in the product corresponding to a temperature of 20 °C and the relative humidity of the surrounding air only exceeding 85 % for a few weeks of the year

3.8

service class 3

climatic conditions leading to a higher moisture content than in Service class 2

4 Requirements

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4.1 Species

The manufacturer shall identify the species used in the production of the blank or semi-finished profile.

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NOTE It is common and accepted practice in laminated profiles to mix certain species (e.g. spruce and fir).

4.2 Dimensions, geometrical characteristics

4.2.1 General

Geometrical and physical characteristics shall be related to a reference moisture content of 12 %. The limits specified in this standard shall apply at the time of delivery.

4.2.2 Cross-sectional dimensions

Tolerances on cross sectional sizes shall be +2 mm to –1 mm on sawn sections and +0,5 mm to 0 mm on planed profiles. These tolerances apply at a moisture content of 12 %. For tolerances at other moisture contents the following formula shall apply to correct the tolerance to a 12 % value:

$$\Delta = 3 w \left(\frac{12 - t}{1000} \right) \quad (1)$$

where :

Δ is the calculated tolerance;

w is the face dimension in millimetres at a moisture content of t ;

t is the moisture content in %.

4.2.3 Tolerances on length

Specified lengths shall not have any minus tolerance.

4.2.4 Warp

4.2.4.1 General

If the tolerance on warp is not specified, the following limits for warp in all classes, measured in accordance with EN 1310, shall apply.

Bow, spring or twist for planed and unplanned pieces shall be limited to the following.

Where twist appears to be combined with bow or spring the permissible values shall be halved.

4.2.4.2 Bow

Sawn timber $F = (L / 1000)^2$ or 2mm, whichever is the greater.

Planed $F = (L / 1000)^2 / 2$ or 1mm, whichever is the greater.

Where F is the bow and L is the length of the piece, in millimetres.

4.2.4.3 Spring

Sawn timber $V = (L / 1000) \times b / 50$, or 2 mm, whichever is the greater.

Planed timber $V = (L / 1000) \times b / 100$, or 1 mm, whichever is the greater.

Where V is the spring, b is the width of the piece and L is the length of the piece, in millimetres.

4.2.4.4 Cup

Sawn timber limited to $b/100$ or 1 mm, whichever is the greater,

Planed timber limited to $b/200$ or 0,2 mm, whichever is the greater

Where b is the width of the piece in millimetres.