



SLOVENSKI STANDARD
SIST ENV 1927-3:2003

01-junij-2003

Qualitative classification of softwood round timber - Part 3: Larches and douglas firs

Qualitäts-Sortierung von Nadel-Rundholz - Teil 3: Lärchen und Douglasie

Classement qualitatif des bois ronds résineux - Partie 3: Mélezes et douglas

Ta slovenski standard je istoveten z: **ENV 1927-3:1998**

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ICS:

79.040 Les, hlodovina in žagan les Wood, sawlogs and sawn timber

SIST ENV 1927-3:2003

en

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ICS

Descriptors: wood, round timber, softwood, classifications, quality, characteristics

English version

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Mélèzes et douglas

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und Douglasie

This European Prestandard (ENV) was approved by CEN on 3 December 1998 as a prospective standard for provisional application.

The period of validity of this ENV is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the ENV can be converted into a European Standard.

CEN members are required to announce the existence of this ENV in the same way as for an EN and to make the ENV available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the ENV) until the final decision about the possible conversion of the ENV into an EN is reached.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This European Prestandard 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 round timber (softwood and hardwood).

Other parts of this standard are :

ENV 1927-1 Qualitative classification of softwood round timber - Part 1 : Spruces and firs

ENV 1927-2 Qualitative classification of softwood round timber - Part 2 : Pines

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

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1 Scope

This Standard specifies the qualitative classification for the roundwood of larch (*Larix*) and douglas fir (*Pseudotsuga*). The classification is made either using clauses 4 and 5 or using clause 6. Clauses 4 and 5 describe the qualitative classification of round timber for which the intended use is unknown. Clause 6 gives the characteristics to be included in all national standards describing a qualitative classification or as guideline for contracts describing qualities for round timber of larches and douglas firs where the intended use is known.

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 part of 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 and sawn timber
EN 844-2	Round and sawn timber - Terminology - Part 2 : General terms relating to round timber
EN 844-5	Round and sawn timber - Terminology - Part 5 : Terms relating to dimensions of round 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 the features of round timber
prEN 1309-2	Round and sawn timber - Method of measurement of dimensions - Part 2: Round timber
EN 1310	Round and sawn timber - Method of measurement of features
EN 1311	Round and sawn timber - Method of measurement of biological degrade
ISO 2036	Wood for manufacture of wood flooring - Symbols for marking according to species

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3 Definitions

For the purposes of this standard, the definitions in EN 844-1, EN 844-2, EN 844-5, EN 844-7 and EN 844-8 apply.

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4 Qualitative classification for which the intended use is unknown

The qualitative grading has four classes : A, B, C and D. The grading is based on the following general description of quality classes :

- **Quality class A**

First quality timber. Generally corresponding to a butt log with clear timber, without defects or with only minor defects and with few restrictions to its use.

- **Quality class B**

Timber of average to first quality, with no specific requirements for clear wood. Knots are allowed to such an extent as is considered to be average for each species.

- **Quality class C**

Timber of average to low quality, allowing all quality characteristics which do not seriously reduce the natural characteristics of the wood.

- **Quality class D**

Timber which can be sawn into usable wood, which, because of its characteristics, falls into none of the quality classes A, B, C.

The classes are defined more precisely in table 1 for larch and table 2 for douglas fir. All the listed qualitative characteristics in tables 1 and 2 shall be taken into account when a class is assigned and measurements shall be made according to prEN 1309-2, EN 1310 and EN 1311.

This classification has to be completed with the latin name of specified species. The abbreviation of this latin name can also be used instead of the full name.

Examples :

1) Douglas fir :

Pseudotsuga Class B or PSES¹⁾ class B

2) Larch :

Larix Class B or LARX¹⁾ class B

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¹ Symbols given in ISO 2036

5 Rules for grading

Table 1 : Grading for Larches

Larches	CLASSES			
CHARACTERISTICS	A	B	C	D
KNOTS (cm)				
- Intergrown, sound	not allowed ⁽¹⁾	≤ 5	allowed	allowed
- Dead	not allowed ⁽¹⁾	≤ 3	≤ 7	allowed
- Unsound	not allowed	not allowed	≤ 6	allowed
RESIN POCKET	not allowed ⁽¹⁾	1 per section	allowed	allowed
RATE OF GROWTH (mm)	≤ 4	≤ 7	unlimited	unlimited
GROWTH				
- Spiral grain (cm/m)	≤ 3	≤ 7	unlimited	unlimited
- Excentric pith (%)	10	20	unlimited	unlimited
- Sweep ⁽²⁾ < 35 cm	≤ 2	≤ 1,5	≤ 4	≤ 6
(cm/m) ≥ 35 cm	≤ 2	≤ 2	≤ 4	≤ 6
- Taper (cm/m)	unlimited	≤ 2	unlimited	unlimited
SHAKES				
- Heart shakes < 35 cm	not allowed	not allowed	≤ 1/2 Ø	allowed
(except dry ≥ 35 cm shakes) ⁽²⁾	≤ 1/4 Ø	≤ 1/3 Ø	≤ 1/2 Ø	allowed
- Ring shakes ⁽²⁾ < 35 cm	not allowed	not allowed	not allowed	allowed
≥ 35 cm	≤ 1/4 Ø	≤ 1/4 Ø	≤ 1/3 Ø	allowed
INSECT ATTACK				
- < 3 mm (e.g. : Trypodendron lineatum)	not allowed	not allowed	not allowed ⁽¹⁾	allowed
- ≥ 3 mm (e.g. : Sirex, Cerambyciden)	not allowed	not allowed	not allowed	allowed
ROT	not allowed	not allowed	not allowed	allowed
STAIN	not allowed	not allowed	allowed ⁽³⁾	allowed

(1) Refer to the general description of quality classes
(2) Mid diameter under bark
(3) Only allowed in the sap area

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Table 2 : Grading for douglas firs

Douglas firs	CLASSES			
	A	B	C	D
CHARACTERISTICS				
KNOTS (cm)				
- Intergrown, sound	not allowed ⁽¹⁾	≤ 6	allowed	allowed
- Dead	not allowed	≤ 4	≤ 8	allowed
- Unsound	not allowed	not allowed	≤ 6	allowed
RESIN POCKET	not allowed ⁽¹⁾	1 per section	allowed	allowed
RATE OF GROWTH (mm)	≤ 8	≤ 8	unlimited	unlimited
GROWTH				
- Spiral grain (cm/m)	≤ 3	≤ 7	unlimited	unlimited
- Excentric pith (%)	10	20	unlimited	unlimited
- Sweep ⁽²⁾ < 35 cm	≤ 2	≤ 1,5	≤ 2	≤ 5
(cm/m) ≥ 35 cm	≤ 2	≤ 2	≤ 2	≤ 5
- Taper (cm/m)	unlimited	≤ 2	unlimited	unlimited
SHAKES				
- Heart shakes < 35 cm	not allowed	not allowed	≤ 1/2 Ø	allowed
(except dry > 35 cm	≤ 1/4 Ø	≤ 1/3 Ø	≤ 1/2 Ø	allowed
shakes) ⁽²⁾				
- Ring shakes ⁽²⁾ < 35 cm	not allowed	not allowed	not allowed	allowed
≥ 35 cm	≤ 1/4 Ø	≤ 1/4 Ø	≤ 1/3 Ø	allowed
INSECT ATTACK				
- < 3 mm (e.g. : Trypodendron lineatum)	not allowed	not allowed	not allowed ⁽¹⁾	allowed
- ≥ 3 mm (e.g. : Sirex, Cerambyciden)	not allowed	not allowed	not allowed	allowed
ROT	not allowed	not allowed	not allowed	allowed
STAIN	not allowed	not allowed	allowed ⁽³⁾	allowed
<p>(1) Refer to the general description of quality classes (2) Mid diameter under bark (3) Only allowed in the sap area</p> <p style="text-align: center;">SIST ENV 1927-3:2003 https://standards.iteh.ai/catalog/standards/sist/30c7acb4-4e0d-44b5-affc-918c752623a9/sist-env-1927-3-2003</p>				