



SLOVENSKI STANDARD
SIST EN 1912:2005+A1:2007

01-julij-2007

Strukturalni les - Razredni razredi - Priznanje vidnih razredov in vrst

Structural timber - Strength classes - Assignment of visual grades and species

Bauholz für tragende Zwecke - Festigkeitsklassen - Zuordnung von visuellen Sortierklassen und Holzarten

Bois de structure - Classes de résistance - Affectation des classes visuelles de des essences

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Ta slovenski standard je istoveten z: **EN 1912:2004+A1:2007**

ICS:

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

SIST EN 1912:2005+A1:2007 en;fr;de

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English Version

Structural timber - Strength classes - Assignment of visual grades and species

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Bauholz für tragende Zwecke - Festigkeitsklassen - Zuordnung von visuellen Sortierklassen und Holzarten

This European Standard was approved by CEN on 10 September 2004 and includes Amendment 1 approved by CEN on 28 December 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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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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EUROPÄISCHES KOMITEE FÜR NORMUNG

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Foreword

This document (EN 1912:2004+A1:2007) has been prepared by Technical Committee CEN/TC 124 “Timber structures”, the secretariat of which is held by SFS.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2007 and conflicting national standards shall be withdrawn at the latest by August 2007.

This document includes Amendment 1, approved by CEN on 2006-12-28.

This document supersedes EN 1912:2004.

The start and finish of text introduced or altered by amendment is indicated in the text by tags $\boxed{A_1}$ $\boxed{A_1}$.

This revised version contains assignments of additional grades and species.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, 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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1 Scope

This document lists visual strength grades, species and sources of timber, and specifies the strength classes from EN 338, to which they are assigned.

NOTE For the grades, species and sources included, there is long experience of use and/or satisfactory test data. The sources listed are therefore largely determined by existing commercial practice.

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 384, *Structural timber - Determination of characteristic values of mechanical properties and density*

EN 518, *Structural timber - Grading - Requirements for visual strength grading standards*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

timber source

geographical area of growth of the trees from which the timber is sawn

3.2

timber species

individual species or combination of species

3.3

Nordic countries

Denmark, Finland, Iceland, Norway and Sweden

4 Symbols and abbreviations

CNE Europe Central, Northern and Eastern Europe

NNE Europe Northern and North Eastern Europe

NC Europe Northern and Central Europe

5 Requirements

5.1 The grades referred to in Tables 1 and 2 shall be in accordance with a grading standard meeting the requirements of EN 518.

5.2 Timber of a grade, species and source may be assigned to a strength class and listed in this document provided there is long experience of use and/or test data in accordance with EN 384.

NOTE 1 Where the required information becomes available for a grade, species and source not included in this document, preliminary assignment to a strength class, pending revision of this document, may be obtained from CEN/TC 124.

NOTE 2 The assignments of grades, species and sources to strength classes given in this document should be reassessed when this document is reviewed, or sooner if there is reason to suspect that the mechanical properties and/or density of the timber have changed, or the basis for the existing assessment no longer represents the current situation, e.g. if there has been a change in the source.

6 Assignments to strength classes

Timber grades, species and sources listed, meet the requirements of the strength classes to which they are assigned in Table 1 and Table 2.

Table 3 and Table 4 identify the botanical species for the commercial names listed in Table 1 and Table 2.

NOTE 1 Timber graded by machine to EN 519 may be graded directly to the strength classes and marked accordingly, and is therefore not referenced in this document.

NOTE 2 For combinations of species and visual grades, which meet the requirements of EN 518, but are not listed in this standard, the assignment to strength classes can be made according to EN 338 using characteristic values determined in accordance with EN 384.

Table 1 — Assignment of grades of conifer species and poplar to strength classes

A1)

Strength Class	Grading rule publishing country (see note 1)	Grade (see note 4)	Species commercial name	Source (see note 2)	Botanical identification (see Table 3)	Comments
C35	Germany	S13	Douglas fir	Germany	54	
C30	France	ST-I	Spruce and fir	France	1, 22	
	Germany and Austria	S13	Spruce	CNE Europe	22	
		S13	Pine	CNE Europe	47	
		S13	Fir	CNE Europe	1	
		S13	Larch	CNE Europe	15	
	Nordic countries	T3	Pine (Redwood)	NNE Europe	47	
		T3	Spruce (Whitewood)	NNE Europe	22	
		T3	Fir	NNE Europe	1	
		T3	Larch	NNE Europe	15	
	USA	J&P Sel	Southern pine	USA	35, 36, 43, 48	
SLF Sel		Southern pine	USA	35, 36, 43, 48		
Spain	ME1	Laricio pine	Spain	39		
Slovak Republic	S0	Spruce	Slovak Republic	22		
C 27	France	ST-I	Larch	France	15	
	Spain	ME1	Scots pine	Spain	47	
C24	France	ST-II	Spruce and fir	France	1, 22	
		ST-II	Douglas fir	France	54	
		ST-II	Pines	France	39, 44, 47	
		ST-II	Poplar (see note 3)	France	50	
		ST-II	Larch	France	15	
	Germany	S10	Douglas fir	Germany	54	
	Germany and Austria	S10	Spruce	CNE Europe	22	
		S10	Pine	CNE Europe	47	
		S10	Fir	CNE Europe	1	
		S10	Larch	CNE Europe	15	
	Nordic countries	T2	Pine (Redwood)	NNE Europe	47	
		T2	Spruce (Whitewood)	NNE Europe	22	
		T2	Fir	NNE Europe	1	
T2		Larch	NNE Europe	15		
T2 and better		Sitka spruce	Denmark and Norway	28		
C24	Spain	ME1	Radiata pine	Spain	49	
		ME1	Maritime pine	Spain	44	

	USA and Canada	J&P Sel J&P Sel J&P Sel	Douglas fir-Larch Hem-fir S-P-F	USA and Canada USA and Canada USA and Canada	18, 54 2, 4, 5, 7, 8, 62 3, 6, 23, 25, 26, 27, 32, 34, 45	
	UK	SLF Sel SLF Sel SLF Sel	Douglas fir-Larch Hem-fir S-P-F	USA and Canada USA and Canada USA and Canada	18, 54 2, 4, 5, 7, 8, 62 3, 6, 23, 25, 26, 27, 32, 34, 45	
		SS SS SS SS SS SS	Paraná pine Redwood Whitewood Douglas fir-Larch Hem-fir S-P-F	Brazil CNE Europe CNE Europe USA and Canada USA and Canada USA and Canada	12 47 1, 22 18, 54 2, 4, 5, 7, 8, 62 3, 6, 23, 25, 26, 27, 32, 34, 45	
		SS SS SS	Southern pine Caribbean pitch pine Larch	USA Caribbean UK	35, 36, 43, 48 33, 42 15, 16, 17	
C22	UK	SS	British pine	UK	39, 47	
	USA	J&P No.1 J&P No.2 SLF No.1 SLF No.2	Southern pine Southern pine Southern pine Southern pine	USA USA USA USA	35, 36, 43, 48 35, 36, 43, 48 35, 36, 43, 48 35, 36, 43, 48	
	Slovak Republic	SI	Spruce	Slovak Republic	22	
C20	Canada	No.1 and better No.1 and better No.1 and better	S-P-F Douglas fir – Larch Hem-fir	Canada Canada Canada	3, 6, 23, 25, 26, 27, 32, 34, 45 18,54 2, 4, 5, 7, 8, 62	
C18	Canada	J&P Sel J&P Sel SLF Sel SLF Sel	Sitka spruce Western red cedar Sitka spruce Western red cedar	Canada Canada Canada Canada	28 58 28 58	
	France	ST-III ST-III ST-III ST-III ST-III	Spruce and fir Douglas fir Pines Poplar (see note 3) Larch	France France France France France	1, 22 54 39, 44, 47 50 15	
	Ireland	SS SS	Norway spruce Sitka spruce	Ireland Ireland	22 28	
	Nordic countries	T1 T1 T1 T1 T1	Pine (Redwood) Spruce (Whitewood) Fir Larch Sitka spruce	NNE Europe NNE Europe NNE Europe NNE Europe Denmark and Norway	47 22 1 15 28	
C18	Portugal	E	Maritime pine	Portugal	44	