



SLOVENSKI STANDARD
SIST EN 1912:2004+A3:2009
01-november-2009

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 et des essences

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Ta slovenski standard je istoveten z: **EN 1912:2004+A3:2009**

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ICS:

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

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en,fr,de

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EUROPEAN STANDARD

EN 1912:2004+A3

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2009

ICS 79.040

Supersedes EN 1912:2004+A2:2008

English Version

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

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

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, Amendment 2 approved by CEN on 2 February 2008 and Amendment 3 approved by CEN on 21 April 2009.

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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Foreword

This document (EN 1912:2004+A3:2009) has been prepared by Technical Committee CEN/TC 124 “Timber structures”, the secretariat of which is held by SFS.

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 November 2009 and conflicting national standards shall be withdrawn at the latest by November 2009.

This document includes Amendment 1 approved on 2006-12-28, Amendment 2, approved by CEN on 2008-02-02 and Amendment 3, approved by CEN on 2009-04-21.

This document supersedes A3 EN 1912:2004+A2:2008 A3.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1, A2 A2 and A3 A3.

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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EN 1912:2004+A3:2009 (E)**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 14081 (all parts), *Timber structures — Strength graded structural timber with rectangular cross section*

3 Terms and definitions

STANDARD PREVIEW

(standard) (iteh.ai)

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

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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 A_2 EN 14081 A_2 .

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 A_2 EN 14081 A_2 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 A_2 EN 14081 A_2 , 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.

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

Strength Class	Grading rule publishing country (see Note 1 at end of the table)	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 & Fir	France	1, 22	
	Germany & 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	
	Germany	LS13	Poplar	Germany	51	
	Spain	ME1	Scots pine	Spain	47	
C24	France	ST-II	Spruce & 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 & 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 & better	Sitka spruce	Denmark and Norway	28	
Spain	ME1	Radiata pine	Spain	49		
	ME1	Maritime pine	Spain	44		
C24	USA & Canada	J&P Sel	Douglas fir-Larch	USA & Canada	18, 54	
		J&P Sel	Hem-fir	USA & Canada	2, 4, 5, 7, 8, 62	
		J&P Sel	S-P-F	USA & Canada	3, 6, 23, 25, 26,	

	UK	SLF Sel SLF Sel SLF Sel	Douglas fir-Larch Hem-fir S-P-F	USA & Canada USA & Canada USA & Canada	27, 32, 34, 45 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 & Canada USA & Canada USA & Canada	12 47 1, 22 18, 54 2, 4, 5, 7, 8, 62 3, 6, 23, 25, 26, 27, 32, 34, 45	
	Slovak Republic	SS SS SS	Southern pine Caribbean pitch pine Larch	USA Caribbean UK	35, 36, 43, 48 33, 42 15, 16, 17	
		SI	Spruce	Slovak Republic	22	
C22	Germany	LS10 & better	Poplar	Germany	51	
	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	
C20	Canada	No.1 & better No.1 & better No.1 & 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 & fir Douglas fir Pines Poplar (see Note 3) Larch	France France France France France	1, 22 54 39, 44, 47 50 15	
	Germany & Austria	S7 S7	Norway spruce Scots pine	CNE Europe CNE Europe	22 47	
	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 & Norway	47 22 1 15 28	
C18	Portugal	E	Maritime pine	Portugal	44	