SLOVENSKI STANDARD
SIST EN 1912:2005

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Nadomeġļ a:
SIST EN 1912:2000
SIST EN 1912:2000/AC:2000

Konstrukcijski les - Trdnostni razredi - Doloļ itev trdnostnih razredov na podlagi vizualnega razvrġļ anja in vrste lesa

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

Ta slovenski standard je istoveten z: **EN 1912:2004**

ICS:

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

SIST EN 1912:2005 **en**

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 1912

December 2004

ICS 79.040

Supersedes EN 1912:1998

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.

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, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
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Foreword

This document (EN 1912:2004) 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 June 2005, and conflicting national standards shall be withdrawn at the latest by June 2005.

This document supersedes EN 1912:1998.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

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

Strength Class	Grading rule publishing country (see note 1 at end of Table)	Grade (see note 4)	Species commercial name	Source (see note 2)	Botanical identification (see Table 3)	Comments
C35	---					
C30	France	ST-I	Spruce & Fir	France	1, 22	
	Germany	S13	Douglas Fir	Germany	54	Limited to thicknesses of 60 mm and above
	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	
C27	France	ST-I	Larch	France	15	
	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	Limited to thicknesses of 60 mm and above
	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	Sitka spruce	NNE Europe	28	
	Spain	ME1	Radiata pine	Spain	49	
		ME1	Maritime pine	Spain	44	
	USA and 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, 27, 32, 34, 45	

Table 1 – Assignment of grades of conifer species and poplar to strength classes *(continued)*

Strength Class	Grading rule publishing country (see note 1 at end of Table)	Grade (see note 4)	Species commercial name	Source (see note 2)	Botanical identification (see Table 3)	Comments
C24	USA and Canada	SLF Sel	Douglas fir-Larch	USA & Canada	18, 54	
		SLF Sel	Hem-fir	USA & Canada	2, 4, 5, 7, 8, 62	
		SLF Sel	S-P-F	USA & Canada	3, 6, 23, 25, 26, 27, 32, 34, 45	
	UK	SS	Paraná pine	Brazil	12	
		SS	Redwood	CNE Europe	47	
		SS	Whitewood	CNE Europe	1, 22	
		SS	Douglas fir-Larch	USA & Canada	18, 54	
		SS	Hem-fir	USA & Canada	2, 4, 5, 7, 8, 62	
		SS	S-P-F	USA & Canada	3, 6, 23, 25, 26, 27, 32, 34, 45	
		SS	Southern pine	USA	35, 36, 43, 48	
		SS	Caribbean pitch pine	Caribbean	33, 42	
		SS	Larch	UK	15, 16, 17	
C22	UK	SS	British pine	UK	39, 47	
	USA	J&P No.1	Southern pine	USA	35, 36, 43, 48	
		J&P No.2	Southern pine	USA	35, 36, 43, 48	
		SLF No.1	Southern pine	USA	35, 36, 43, 48	
		SLF No.2	Southern pine	USA	35, 36, 43, 48	
C20	Canada	No.1 & better	S-P-F	Canada	3, 6, 23, 25, 26, 27, 32, 34, 45	
C18	Canada	J&P Sel	Sitka spruce	Canada	28	
		J&P Sel	Western red cedar	Canada	58	
		SLF Sel	Sitka spruce	Canada	28	
		SLF Sel	Western red cedar	Canada	58	
	France	ST-III	Spruce & fir	France	1, 22	
		ST-III	Douglas fir	France	54	
		ST-III	Pines	France	39, 44, 47	
		ST-III	Poplar (see note 3)	France	50	
		ST-III	Larch	France	15	
	Ireland	SS	Norway spruce	Ireland	22	
		SS	Sitka spruce	Ireland	28	
	Nordic countries	T1	Pine (Redwood)	NNE Europe	47	
		T1	Spruce (Whitewood)	NNE Europe	22	
		T1	Fir	NNE Europe	1	
		T1	Larch	NNE Europe	15	
		T1	Sitka spruce	NNE Europe	28	
	Portugal	E	Maritime pine	Portugal	44	
	Spain	ME2	Radiata pine	Spain	49	
		ME2	Maritime pine	Spain	44	