SLOVENSKI STANDARD
SIST EN 1912:2000

01-april-2000

Konstrukcijski les - Trdnostni razredi - Določitev trdnostnih razredov na podlagi vizualnega razvrščanja 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 1912:1998**

ICS:

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

SIST EN 1912:2000 **en**

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 1912

June 1998

ICS 79.040

Descriptors: wood, structural timber, mechanical strength, classifications, specifications, visual examination, tables (data)

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 24 April 1998.

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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.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 124 "Timber structures", the secretariat of which is held by DS.

This standard is one of a series of standards for building materials. It was prepared by a working group under the joint convenorship of Association Française de Normalisation (AFNOR) and British Standards Institution (BSI).

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of an identical text or by endorsement, at the latest by December 1998, and conflicting national standards shall be withdrawn at the latest by December 1998.

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

1 Scope

This European Standard 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

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 European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 338	Structural timber - Strength Classes
EN 384	Structural timber - Determination of characteristic values of mechanical properties and density
EN 518	Structural timber - Grading - Requirements for visual strength grading standards
EN 519	Structural timber - Grading - Requirements for machine strength graded timber and grading machines

3 Definitions

For the purposes of this standard, the following 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 standard 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 standard, preliminary assignment to a strength class, pending revision of this standard, may be obtained from CEN/TC124.

NOTE 2: The assignments of grades, species and sources to strength classes given in this standard should be reassessed when this standard 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 standard.

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 & 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	
C27	---					

continued

Table 1 (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	France		Spruce & Fir		1, 22	
		S10	Douglas fir	CNE Europe	54	
		S10	Pines	CNE Europe	39,44,47	
		S10	Poplar (see Note 3)	CNE Europe	50	
				CNE Europe		
	Germany	S10	Douglas Fir	Germany	54	Limited to thicknesses of 60 mm and above
				NNE Europe		
	Germany & Austria	T2	Spruce	NNE Europe	22	
		T2	Pine	NNE Europe	47	
		T2	Fir	NNE Europe	1	
		T2	Larch		15	
				NC Europe		
	Nordic countries	B	Pine (Redwood)		47	
			Spruce (Whitewood)	Brazil	22	
		SS	Fir	CNE Europe	1	
		SS	Larch	CNE Europe	15	
		SS		USA & Canada		
	The Netherlands	SS	Spruce & fir	USA & Canada	1, 22	
		SS		USA & Canada		
	UK	SS	Parana pine	USA	12	
		SS	Redwood	Caribbean	47	
		SS	Whitewood	UK	1, 22	
		SS	Douglas fir-Larch		18, 54	
			Hem-fir		2, 4, 5, 7, 8, 62	
			S-P-F		3, 6, 23, 25, 26, 27, 32, 34, 45	
			Southern pine		35, 36, 43, 48	
			Caribbean pitch pine		33, 42	
			Larch		15, 16, 17	

continued

Table 1 (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 Continued	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, 27, 32, 34, 45	
		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	
C22	UK	SS	British pine	UK	39, 47	
	USA	J&P No1	Southern pine	USA	35, 36, 43, 48	
		J&P No2	Southern pine	USA	35, 36, 43, 48	
		SLF No1	Southern pine	USA	35, 36, 43, 48	
		SLF No2	Southern pine	USA	35, 36, 43, 48	
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	

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