



SLOVENSKI STANDARD

oSIST prEN 1912:2010

01-december-2010

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

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

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<https://standards.iteh.ai/catalog/standards/sist/c52213a0-ff76-476f-a0eb-09b518c10406/sist-1912-2012>

Ta slovenski standard je istoveten z: ^{en-1912-2012} prEN 1912

ICS:

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

oSIST prEN 1912:2010

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

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August 2010

ICS 79.040

Will supersede EN 1912:2004+A4:2010

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 draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 124.

If this draft becomes a European Standard, 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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<https://standards.iteh.ai/catalog/standards/sist/c52213a0-ff76-476f-a0eb-09b518c10406/sist-en-1912-2012>

Foreword

This document (prEN EN 1912:2010) has been prepared by Technical Committee CEN/TC 124 "Timber structures", the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 1912:2004+A4:2010.

This revised version contains assignments of additional grades and species.

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prEN 1912:2010 (E)

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

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 14081-1, *Timber structures — Strength graded structural timber with rectangular cross section – Part 1: General requirements*

EN 14081-2, *Timber structures — Strength graded structural timber with rectangular cross section – Part 2: Machine grading; additional requirements for initial type testing*

EN 14081-3, *Timber structures — Strength graded structural timber with rectangular cross section – Part 3: Machine grading; additional requirements for factory production control*

EN 14081-4, *Timber structures — Strength graded structural timber with rectangular cross section – Part 4: Machine grading; grading machine settings for machine controlled systems*

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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 14081.

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 14081 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 14081, 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	Germany	S13	Douglas Fir	Germany	54	
C30	France	ST-I	Spruce & Fir	France	1, 22	
	Germany, Austria & Czech Republic	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 SLF Sel	Southern pine Southern pine	USA USA	35, 36, 43, 48 35, 36, 43, 48	
	Spain	ME1	Laricio pine	Spain	39	
	Slovak Republic	S0	Spruce	Slovak Republic	22	

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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
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	
		S10	Spruce	CNE Europe	22	
		S10	Pine	CNE Europe	47	
		S10	Fir	CNE Europe	1	
	Germany, Austria & Czech Republic	S10	Larch	CNE Europe	15	
		T2	Pine (Redwood)	NNE Europe	47	
		T2	Spruce (Whitewood)	NNE Europe	22	
		T2	Fir	NNE Europe	1	
		T2	Larch	NNE Europe	15	
	Nordic countries	T2 & better	Sitka spruce	Denmark and Norway	28	
		ME1	Radiata pine	Spain	49	
	Spain	ME1	Maritime pine	Spain	44	
		J&P Sel	Douglas fir-Larch	USA & Canada	18, 54	
		J&P Sel	Hem-fir	USA & Canada	2, 4, 5, 7, 8, 62	
C24	USA & Canada	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	
	UK	SLF Sel	S-P-F	USA & Canada	3, 6, 23, 25, 26, 27, 32, 34, 45	
		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	
	Slovak Republic	SS	Southern pine	USA	35, 36, 43, 48	
		SS	Caribbean pitch pine	Caribbean	33, 42	
		SS	Larch	UK	15, 16, 17	
	Slovak Republic	SI	Spruce	Slovak Republic	22	

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
C22	Germany	LS10 & better	Poplar	Germany	51	Minimum thickness & width is 70mm
	Spain	MEG MEG	Scots pine Laricio pine	Spain Spain	47 39	
	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	S-P-F	Canada	3, 6, 23, 25, 26, 27, 32, 34, 45	
		No.1 & better	Douglas Fir – Larch	Canada	18, 54	
		No.1 & better	Hem-fir	Canada	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	iTetraT (standards.tech.ai) https://standards.itelaircatalog.standards/sist/c522/3a01176-476f-005-09b518c10406/sist-en-1912-2012
		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	
		S7 S7	Norway spruce Scots pine	CNE Europe CNE Europe	22 47	
		SS SS	Norway spruce Sitka spruce	Ireland Ireland	22 28	
		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	
	Portugal	E	Maritime pine	Portugal	44	
		ME2 ME2 ME2 ME2	Radiata pine Maritime pine Laricio pine Scots pine	Spain Spain Spain Spain	49 44 39 47	
		SS SS SS SS	Western red cedar Sitka spruce Western white woods Douglas fir	Canada Canada USA UK	58 28 3, 6, 23, 34, 37, 38, 45, 63 54	

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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
	USA	SS GS GS J&P Sel SLF Sel LF Const	British spruce Caribbean pitch pine Southern pine Western white woods Western white woods Southern pine	UK Caribbean USA USA USA USA	22, 28 33, 42 35, 36, 43, 48 3, 6, 23, 34, 37, 38, 45, 63 3, 6, 23, 34, 37, 38, 45, 63 35, 36, 43, 48	
C16	Germany	S7	Douglas Fir	Germany	54	
	Germany, Austria & Czech Republic	S7 S7	Fir Larch	CNE Europe CNE Europe	1 15	
	UK	GS GS GS GS GS GS GS	Paraná pine Redwood Whitewood Douglas fir-Larch Hem-fir S-P-F Larch	Brazil CNE Europe CNE Europe USA & Canada USA & Canada USA & Canada UK	12 47 1, 22 18, 54 2, 4, 5, 7, 8, 62 3, 6, 23, 25, 26, 27, 32, 34, 45 15, 16, 17	
	USA & Canada	J&P No.1 J&P No.2 J&P No.1 J&P No.2 J&P No.1 J&P No.2	Douglas fir-Larch Douglas fir-Larch Hem-fir Hem-fir S-P-F S-P-F	USA & Canada USA & Canada USA & Canada USA & Canada USA & Canada USA & Canada	18, 54 18, 54 2, 4, 5, 7, 8, 62 2, 4, 5, 7, 8, 62 3, 6, 23, 25, 26, 27, 32, 34, 45 3, 6, 23, 25, 26, 27, 32, 34, 45	
	USA & Canada	SLF No.1 SLF No.2 SLF No.1 SLF No.2 SLF No.1 SLF No.2	Douglas fir-Larch Douglas fir-Larch Hem-fir Hem-fir S-P-F S-P-F	USA & Canada USA & Canada USA & Canada USA & Canada USA & Canada USA & Canada	18, 54 18, 54 2, 4, 5, 7, 8, 62 2, 4, 5, 7, 8, 62 3, 6, 23, 25, 26, 27, 32, 34, 45 3, 6, 23, 25, 26, 27, 32, 34, 45	
C16	USA USA	J&P No.3 SLF No.3 Stud	Southern pine Southern pine Southern pine	USA USA USA	35, 36, 43, 48 35, 36, 43, 48 35, 36, 43, 48	
	Slovak Republic	SII	Spruce	Slovak Republic	22	