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Hardwood round timber - Qualitative classification - Part 3: Ash and maples and sycamore

Laub-Rundholz - Qualitäts-Sortierung - Teil 3: Esche und Ahorn

Bois ronds feuillus - Classement qualitatif - Partie 3: Frêne et érables

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**Ta slovenski standard je istoveten z: EN 1316-3:1997**

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**ICS:**

79.040	Les, hlodovina in žagan les	Wood, sawlogs and sawn timber
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**SIST EN 1316-3:2003**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 1316-3

October 1997

ICS 79.040

Descriptors: wood, sawlogs, deciduous timber, filing, characteristics, quality classes

English version

Hardwood round timber - Qualitative classification - Part 3: Ash  
and maples and sycamore

Bois ronds feuillus - Classement qualitatif - Partie 3: Frêne  
et érables

Laub-Rundholz - Qualitäts-Sortierung - Teil 3: Esche und  
Ahorn

This European Standard was approved by CEN on 11 September 1997.

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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

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### Foreword

SIST EN 1316-3:2003  
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This European Standard has been prepared by Technical Committee CEN/TC 175 "Round and sawn timber", the secretariat of which is held by AFNOR.

This standard is one of a series of standards concerning round timber (softwoods and hardwoods).

Other parts of this standard are :

EN 1316-1 : Hardwood round timber - Qualitative classification - Part 1 : Oak and beech.

EN 1316-2 : Hardwood round timber - Qualitative classification - Part 2 : Poplar.

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 April 1998, and conflicting national standards shall be withdrawn at the latest by April 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 standard specifies a qualitative classification and grade designations for felled trees of ash (*Fraxinus excelsior*) and maples presented in the form of long poles or logs.

The classifications describe quality classes of round timbers for which the intended use is not known.

The maples classification is applied for the following species : *Acer pseudoplatanus*, *Acer platanoïdes*, *Acer campestre*.

## 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 844-1         | Round and sawn timber - Terminology - Part 1: General common terms relating to round and sawn timber. |
| EN 844-2         | Round and sawn timber - Terminology - Part 2 : General terms relating to round timber.                |
| EN 844-8         | Round and sawn timber - Terminology - Part 8 : Terms relating to features of round timber.            |
| prEN 1309 : 1994 | Round and sawn timber - Method of measurement of dimensions. <sup>1)</sup>                            |
| EN 1310          | Round and sawn timber - Method of measurement of features.  |
| EN 1311          | Round and sawn timber - Method of measurement of biological degrade.                                  |

## 3 Definitions

For the purposes of this standard, the definitions in the standards EN 844-1, EN 844-2 and EN 844-8 apply.

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<sup>1)</sup> prEN 1309 : 1994 has been divided into two parts ; part 2, in preparation, will be applicable to round timber.

## 4 Qualitative classification

### 4.1 Grading principles

Each long pole, log or portion of a round timber individualized by a theoretical crosscut point, is qualified according to its dimensions and to the presence, size and distribution of specific characteristics.

### 4.2 Designation of grades

Standardized designation of classes includes 3 characters, the latest one separated by a dash :

- The first and second characters are the genus initial and first letter in latin ;
- The third character indicates the quality class.

#### 4.2.1 Ash (Fr)

The classification of ash is divided in four quality classes :

- Fr-A is an exceptional quality class ;
- Fr-B is a normal quality class ;
- Fr-C is a less valuable quality class ;
- Fr-D is a quality class which includes long pole, log or portion of long poles not permitted in the other quality classes.

For all characteristics in class Fr-D, more than 40 % of the volume of the wood shall be useable.

#### 4.2.2 Maples (Ac)

The classification of maples is divided in four quality classes :

- Ac-A is an exceptional quality class ;
- Ac-B is a normal quality class ;
- Ac-C is a less valuable quality class ;
- Ac-D is a quality class which includes long pole, log or portion of long pole not permitted in the other quality classes.

For all characteristics in class Ac-D, more than 40% of the volume of the wood shall be useable.

#### 4.3 Characteristics to be taken into account for the classification

Table 1 and 2 give the characteristics taken into account and these shall be measured according to prEN 1309 : 1994, EN 1310 and EN 1311.

Limits of permitted characteristics of each class are given in tables 1 and 2.

A long pole, log or portion of round timber shall be downgraded by its failure to meet the requirement of any single characteristic.

Length and diameter shall be measured using the method stated in prEN 1309 : 1994<sup>1)</sup>.

#### 4.4 Tables of rules for grading

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<sup>1)</sup> prEN 1309 : 1994 has been divided into two parts ; part 2, in preparation, will be applicable to round timber.

Table 1 : Grading rules for ash

Characteristics <sup>1)</sup>	Class			
	Fr-A	Fr-B	Fr-C	Fr-D
MINIMUM FOR DIMENSIONS				
Minimum length in m	3 2)	3 2)	2 2)	without limit
Minimum mid-diameter under bark in cm	40 2)	35 2)	20 2)	without limit
UNCOVERED SOUND KNOTS	not allowed	$\Sigma$ max. $\leq$ 150 mm / 3 m and diameter $<$ 60 mm	$\Sigma$ max. $\leq$ 150 mm / 2 m	allowed
UNCOVERED ROT KNOTS	not allowed	not allowed	$\Sigma$ max. $\leq$ 80 mm / 2 m	allowed
COVERED KNOTS (BUCKLES)	not allowed	not allowed	max. buckle / 2 m	allowed
ECCENTRICITY OF HEART in %	$\leq$ 10	$\leq$ 20	allowed	allowed
SIMPLE SWEEP in cm/m	$\leq$ 3	$\leq$ 4	allowed	allowed
SIMPLE HEART SHAKES	allowed in the central 1/3 of the diameter	allowed in the central 1/2 of the diameter	allowed	allowed
STAR SHAKES	not allowed	allowed in the central 1/5 of the diameter	allowed in the central 1/3 of the diameter	allowed
CHECKS	not allowed	not allowed	allowed	allowed
BORE HOLES	not allowed	not allowed	not allowed	allowed
ROTS	not allowed	not allowed	not allowed	allowed
CANKER	not allowed	not allowed 2)	allowed	allowed
BROWN HEART	$\leq$ 20% of cross section diameter 3)	$\leq$ 30% of cross section diameter 4)	allowed	allowed
<sup>1)</sup> : The limits for the following characteristics shall be fixed by contract : ovality, spiral grain, roses, epicormic shoots, cracks. <sup>2)</sup> : Except clauses stipulated by contract. <sup>3)</sup> : A sub-class "Fr-A Brown heart" allows 100% of brown heart. <sup>4)</sup> : A sub-class "Fr-B Brown heart" allows 100% of brown heart.				