
Notranje in zunanje obloge iz masivnega lesa - Profili brez utora in peresa

Solid softwood panelling and cladding - Machined profiles without tongue and groove

Innen- und Außenbekleidungen aus massivem Nadelholz - Profilholz ohne Nut und Feder

Lambris et bardages en bois massif résineux - Profilés usinés sans rainure et languette

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ICS:

79.080

Polizdelki iz lesa

Semi-manufactures of timber

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English Version

Solid softwood panelling and cladding - Machined profiles
without tongue and groove

Lambris et bardages en bois massif résineux - Profilés
usinés sans rainure et languette

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Profilholz ohne Nut und Feder

This European Standard was approved by CEN on 5 November 2006.

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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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Foreword

This document (EN 15146:2006) has been prepared by Technical Committee CEN/TC 175 “Round and sawn timber”, the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by June 2007, and conflicting national standards shall be withdrawn at the latest by June 2007.

This standard is one of a series of standards concerning solid wood panelling and cladding and wood flooring (including parquet).

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

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Introduction

This standard describes characteristics of solid softwood panelling and cladding based on individual elements.

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1 Scope

This European Standard defines the characteristics of solid wood panelling and cladding without tongue and groove on edges, machined from the following most common European species of softwood: spruce/fir, pine, larch, European Douglas fir and maritime pine.

Products are intended for interior or exterior use.

Coatings and finishings are not dealt with in this European Standard.

NOTE products sold in the European Economic Area will have to comply with EN 14915.

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 350-2, *Durability of wood and wood-based products - Natural durability of solid wood - Part 2: Guide to natural durability and treatability of selected wood species of importance in Europe*

EN 844-3:1995, *Round and sawn timber - Terminology - Part 3: General terms relating to sawn timber*

EN 844-4:1997, *Round and sawn timber - Terminology - Part 4: Terms relating to moisture content*

EN 844-5:1997, *Round and sawn timber - Terminology - Part 5: Terms relating to dimensions of round timber*

EN 844-6:1997, *Round and sawn timber - Terminology - Part 6: Terms relating to dimensions of sawn timber*

EN 844-7:1997, *Round and sawn timber - Terminology - Part 7: Terms relating to anatomical structure of timber*

EN 844-8:1997, *Round and sawn timber - Terminology - Part 8: Terms relating to features of round timber*

EN 844-9:1997, *Round and sawn timber - Terminology - Part 9: Terms relating to features of sawn timber*

EN 844-10:1998, *Round and sawn timber - Terminology - Part 10: Terms relating to stain and fungal attack*

EN 844-11:1998, *Round and sawn timber - Terminology - Part 11: Terms relating to degrade by insects*

EN 844-12:2000, *Round and sawn timber - Terminology - Part 12: Additional terms and general index*

EN 1309-1:1997, *Round and sawn timber- Method of measurement of dimensions – Part 1: Sawn timber*

EN 1310:1997, *Round and sawn timber - Method of measurement of features*

EN 13183-1, *Moisture content of a piece of sawn timber – Part 1: Determination by oven dry method*

EN 13183-2, *Moisture content of a piece of sawn timber – Part 2: Estimation by electrical resistance method*

EN 13556, *Round and sawn timber – Nomenclature of timbers used in Europe*

EN 13647, *Wood and parquet flooring and wood panelling and cladding – Determination of geometrical characteristics*

EN 13756:2002, *Wood flooring – Terminology*

3 Terms and definitions

For the purposes of this European Standard, the terms and definitions given in EN 13756:2002, EN 844-3:1995, EN 844:1997 parts 4 through 9, EN 844:1998 parts 10 and 11, EN 844-12:2000, EN 1309-1:1997 and the following apply.

3.1
panelling and cladding without tongue and groove
boards of solid wood without “tongue and groove” which have been machined on the face and two edges.

NOTE The back is either machined or hit and/or missed, depending on the product. For special purposes (for instance, acoustic) the edges may have fastening slots. The ends of the boards may be end matched

3.2
end matching
any profile for connection at the end of the panelling or cladding including tongue and/or groove

3.3
panelling
elements of solid wood mainly for interior use

3.4
cladding
elements of solid wood mainly for exterior use

3.5
face
visible surface of an element

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NOTE Includes edges and chamfer.

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4 Symbols and abbreviations

Symbols and abbreviations used in this European Standard are given in Figure 1 and in Table 3 and Table 4.

5 Requirements

5.1 General

The softwood species shall be selected with regard to the appearance expected, the suitability for the intended purpose and the general characteristics of the species itself. All requirements apply at the time of production unless the manufacturer states otherwise.

5.2 Appearance and finishing

5.2.1 General

Grading applies to the face only, unless otherwise specified. Machining requirements are covered in 5.4.4 and apply to all grades of all species.

Natural variation within a single species is generally accepted as a common feature of wood and is not considered for classification of appearance, with the exception of free grade.

Measuring features shall be in accordance with EN 1310. Concerning knots the general method in EN 1310:1997, 4.1.1, applies.

The boards may be finished with surface coating. The grading shall be done before coating.

5.2.2 Grading classes

Grading and the features for spruce (*Picea* spp.) / fir (*Abies* spp.), pine (*Pinus* spp.), larch (*Larix* spp.) and European Douglas Fir (*Pseudotsuga menziesii*) are given in Table 1. Grading and the features for Maritime Pine (*Pinus pinaster*) are given in Table 2. For free class, see clause 5.2.3.

Table 1 — Grading classes of the wood species - Spruces (*Picea* spp.), fir (*Abies* spp.), pine (*Pinus* spp.), larch (*Larix* spp.), and European Douglas fir (*Pseudotsuga menziesii*)

Features ^{a b c}	Grade A	Grade B
Knots	<p>permitted:</p> <ul style="list-style-type: none"> - black pin knots up to 5 mm if not in clusters; - sound intergrown knots up to 10 % of the width plus 30 mm; - partially intergrown knots, barkringed knots, splay knots and dead knots (not loose); - spruce/fir, and larch: up to 10 % of the width plus 15 mm; - pine, and Douglas Fir: up to 10 % of the width plus 30 mm; - occasional small missing and damaged aris knots up to 20 % of the largest acceptable knot size provided coverage is not affected; - knot-plugs of the same wood species, up to the largest allowed knot size. <p>not permitted:</p> <ul style="list-style-type: none"> - loose knots, knot-holes and unsound knots 	<p>permitted:</p> <ul style="list-style-type: none"> - black pin knots up to 5 mm; - sound intergrown knots, partially intergrown knots, barkringed knots, splay knots, and dead knots up to 10 % of the width plus 50 mm; - occasional loose knots, knot-holes and unsound knots up to 15 mm; - knot plugs of the same wood species.

(continued)

Table 1 — Continued

Features ^{a b c}	Grade A	Grade B
Chipped Grain (machined damaged spots)	permitted with knots: up to 20 % of the permitted maximum knot size; with other spots up to 20 % of the maximum knot size (one per m)	permitted with knots: up to 40 % of the permitted maximum knot size; with other spots up to 40 % of the maximum knot size.
Compression wood	Permitted but see "Deformation"	
Deformation	permitted if correct fastening is possible	
Stick marks	Not permitted	permitted
Resin pockets	permitted: - occasionally up to the size of 2 mm x 25 mm or equal in mm ² - 1 resin pocket up to the size of 5 mm x 50 mm or equal in mm ² per 1,5 m in length	permitted: - up to the size of 2 mm x 35 mm or equal in mm ² unlimited - 3 resin pockets up to the width of 6 mm and a total length of 150 mm or equal in mm ² and per 1,5 m in length
Fissures (shakes)	permitted: - hair fissures (barely visible); - end shakes not longer than width of the boards. end shakes: Boards with tongue and groove: Occasionally if not longer than half of the width of the boards not permitted: - fissures (shakes) going through with the exception of end shakes; - fissures extending from face to edge; - ring shakes; - fissures on the reverse side, continuing for the full length of the board	permitted: - face shakes going through (maximum 1 mm wide) up to 300 mm in length; - end shakes not longer than twice the width. end shakes: Boards with tongue and groove: occasionally permitted for the other boards, it is not permitted: - ring shakes.

(continued)

Table 1 —Concluded

Features ^{a b c}	Grade A	Grade B
Pith	permitted at 1/3 of length not more than 5 mm in width.	permitted
Colour	face side: without any discolouration (discolouration on the reverse side is permitted).	permitted: slight discolouration as red and blue stain (discolouration on the reverse side is permitted).
Fungal attack	not permitted	not permitted (exception: discolouration - see "colour")
Insect damages	not permitted	
Wane	not permitted on face, permitted on the back side not longer than the width of the board.	not permitted on face, permitted on back side up to 1/4 of the length.
Ingrown bark	permitted: occasional up to the size of 5 mm x 50 mm or equal in mm ² .	permitted

- ^a Not more than 5 % of the quantity of the consignment is allowed to be in the next lower grade. Pieces not achieving the requirements of the B grade must fulfil the principles of panelling and cladding end use.
- ^b The classification for appearance does not take into account features which may impair the element when installed.
- ^c The face comprises the whole visible surface of the strip when assembled. Therefore extending to the edges and in particular, the chamfers.

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NOTE For defects not mentioned, assessment should be based on the defined features they most closely resemble.