Liimspoonpuit (LVL). Määratlused, liigitus ja spetsifikaadid KONSOLIDEERITUD TEKST

Laminated Veneer Lumber (LVL) - Definitions, .tion. classification and specifications CONSOLIDATED **TEXT**



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 14279:2005+A1:2009 sisaldab Euroopa standardi EN 14279:2004+A1:2009 ingliskeelset teksti.

Standard on kinnitatud Eesti Standardikeskuse 30.04.2009 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.

Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 18.03.2009.

Standard on kättesaadav Eesti standardiorganisatsioonist.

This Estonian standard EVS-EN 14279:2005+A1:2009 consists of the English text of the European standard EN 14279:2004+A1:2009.

This standard is ratified with the order of Estonian Centre for Standardisation dated 30.04.2009 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.

Date of Availability of the European standard text 18.03.2009.

The standard is available from Estonian standardisation organisation.

ICS 79.060.20, 79.080

Võtmesõnad: classifications, fiberboards, pest con, pest damage, plywood, pollution, properties, quality control, specification, specification (approval), specifications, terminology, veneer plywood, wood, wood based products, woodbased sheet materials, wooden boards, woodworking

Standardite reprodutseerimis- ja levitamisõigus kuulub Eesti Standardikeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonilisse süsteemi või edastamine ükskõik millises vormis või millisel teel on keelatud ilma Eesti Standardikeskuse poolt antud kirjaliku loata.

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2009

EN 14279:2004+A1

ICS 79.080; 79.060.20

Supersedes EN 14279:2004

English Version

Laminated Veneer Lumber (LVL) - Definitions, classification and specifications

Lamibois (LVL) - Définitions, classification et spécifications

Furnierschichtholz (LVL) - Definitionen, Klassifizierung und Spezifikationen

This European Standard was approved by CEN on 14 October 2004 and includes Amendment 1 approved by CEN on 3 February 2009.

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 CEN Management Centre 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 CEN Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, 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.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

| | | page |
|---------------------|---|---------|
| oroword | <u></u> | 2 |
| | n | |
| | | |
| | pe | |
| | mative references | |
| Terr | ms and definitions | 6 |
| Clas | ssification | 7 |
| | uirements | |
| | neral requirements | |
| | maldehydelitional requirements for LVL/1: LVL for use in dry conditions | 8 9 |
| 3.1 Bon | iding quality | 9 |
| | logical durability | |
| | litional requirements for LVL/2: LVL for use in humid conditions | |
| 4.2 Biol | logical durability | 9 |
| | litional requirements for LVL/3: LVL for use in exterior conditions | |
| 5.1 Bon 5.2 Biol | iding qualitylogical durabilitylogical durability | 99 9 |
| 0.2 Dioi | plementary properties | ۰ |
| Sup | ification | |
| | ificationeral | |
| 2 Exte | ernal control | 10 |
| | tory production control | |
| Mar | king, identification and documentation | 11 |
| nnex A (no | ormative) Evaluation of the bonding quality of laminated veneer lumber | 12 |
| nnex B (in | nformative) Supplementary properties | 23 |
| ibliograph | ıy | 24 |
| onograpi. | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | - |
| | | |
| | | |
| | | |
| | | |

Foreword

This document (EN 14279:2004+A1:2009) has been prepared by Technical Committee CEN/TC 112 "Wood-based panels", the secretariat of which is held by DIN.

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 September 2009, and conflicting national standards shall be withdrawn at the latest by September 2009.

This document includes Amendment 1, approved by CEN on 2009-02-03.

This document supersedes EN 14279:2004.

The start and finish of text introduced or altered by amendment is indicated in the text by tags [A].

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, 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, Ac om. Sweden, Switzerland and United Kingdom.

Introduction

LVL is covered by two standards: EN 14374 and EN 14279 (this document), prepared under Mandates M/112 and M/113 respectively.

In the field of application of Mandate M/112 "Structural timber products and ancillaries", LVL is a material used for manufacturing structural products. In the field of application of Mandate M/113 "Wood-based panels", LVL is a product.

The fields of application are to some extent overlapping. In some cases, the standard to be used is specified in the design standards, in other cases it is up to the user to specify the standard to be used.

For relationship with Council Directive 89/106/EEC, EN 14374:2004 has its own Annex ZA.

EN 14279 applies to LVL products for general purposes as well as to LVL products for use in construction, for relationship with Council Directive 89/106/EEC, refer to Annex ZA of EN 13986:2004.

This document has been prepared in concert with CEN/TC 124. Consequently, some parts are common with A ation. EN 14374, e.g. some definitions and general specifications.

1 Scope

This document gives definitions, a classification and specifies the requirements for Laminated Veneer Lumber (LVL) for general purposes or for use in construction in dry, humid or exterior conditions.

NOTE This standard will be called up in EN 13986 for construction applications.

Annex A "Evaluation of the bonding quality of laminated veneer lumber" is normative

Information on supplementary properties is given in Annex B.

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 310, Wood-based panels — Determination of modulus of elasticity in bending and of bending strength

EN 314-1, Plywood — Bonding quality — Part 1: Test methods

EN 314-2, Plywood — Bonding quality — Part 2: Requirements

EN 315, Plywood — Tolerances for dimensions

EN 322, Wood-based panels — Determination of moisture content

EN 323, Wood-based panels — Determination of density

EN 324-1, Wood-based panels — Determination of dimensions of boards — Part 1: Determination of thickness, width and length

EN 324-2, Wood-based panels — Determination of dimensions of boards — Part 2: Determination of squareness and edge straightness

EN 326-1, Wood-based panels — Sampling, cutting and inspection — Part 1: Sampling and cutting of test pieces and expression of test results

EN 326-2, Wood based panels — Sampling, cutting and inspection — Part 2: Quality control in the factory

EN 326-3, Wood based panels — Sampling, cutting and inspection — Part 3: Inspection of an isolated lot of panels

EN 335-3, Durability of wood and wood-based products — Definition of hazard classes of biological attack — Part 3: Application to wood-based panels

EN 408, Timber structures — Structural timber and glued laminated timber — Determination of some physical and mechanical properties

EN 635-2, Plywood — Classification by surface appearance — Part 2: Hardwood

EN 635-3, Plywood — Classification by surface appearance — Part 3: Softwood

EN 635-5, Plywood — Classification by surface appearance — Part 5: Methods for measuring and expressing characteristics and defects

EN 717-1, Wood-based panels — Determination of formaldehyde release — Part 1: Formaldehyde emission by the chamber method

EN 717-2, Wood-based panels — Determination of formaldehyde release — Part 2: Formaldehyde release by the gas analysis method

EN 789, Timber structures – Test methods – Determination of mechanical properties of wood based panels

EN 1058, Wood-based panels - Determination of characteristic values of mechanical properties and density

EN 13986:2004 Wood-based panels for use in construction — Characteristics, evaluation of conformity and Structural marking

EN 14374, Timber structures – Structural laminated veneer lumber (LVL) – Requirements