



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 14374:2005

ICS 91.080.20
79.080

**TIMBER STRUCTURES - STRUCTURAL
LAMINATED VENEER LUMBER -
REQUIREMENTS**

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
<http://www.nsai.ie>

Sales
<http://www.standards.ie>

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on:
February 11, 2005*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2005

Price Code I

Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 14374

NORME EUROPÉENNE

EUROPÄISCHE NORM

November 2004

ICS 91.080.20; 79.080

English version

Timber structures - Structural laminated veneer lumber - Requirements

Structures en bois - LVL (Lamibois) - Exigences

Holzbauwerke - Furnierschichtholz für tragende Zwecke -
Anforderungen

This European Standard was approved by CEN on 22 July 2004.

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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

EN 14374:2004 (E)

Contents

| | page |
|--|-----------|
| Foreword | 3 |
| 1 Scope | 4 |
| 2 Normative references | 4 |
| 3 Terms, definitions and symbols | 5 |
| 4 Requirements | 5 |
| 4.1 Veneers | 5 |
| 4.2 Bonding quality | 5 |
| 4.3 Dimensions and tolerances | 6 |
| 4.4 Strength | 6 |
| 4.4.1 General..... | 6 |
| 4.4.2 Bending strength edgewise | 6 |
| 4.4.3 Bending strength flatwise | 6 |
| 4.4.4 Tension strength parallel to the grain | 7 |
| 4.4.5 Tension strength perpendicular to the grain..... | 7 |
| 4.4.6 Compression strength parallel to the grain..... | 7 |
| 4.4.7 Compression strength perpendicular to the grain | 7 |
| 4.4.8 Shear strength related to edgewise bending..... | 7 |
| 4.4.9 Shear strength related to flatwise bending | 7 |
| 4.5 Stiffness..... | 7 |
| 4.5.1 General..... | 7 |
| 4.5.2 Modulus of elasticity parallel to the grain | 7 |
| 4.5.3 Modulus of elasticity perpendicular to the grain | 8 |
| 4.5.4 Shear modulus related to edgewise bending | 8 |
| 4.5.5 Shear modulus related to flatwise bending | 8 |
| 4.6 Density..... | 8 |
| 4.7 Moisture content | 8 |
| 4.8 Reaction to fire | 8 |
| 4.9 Release of formaldehyde | 8 |
| 4.10 Natural durability against biological attack | 8 |
| 5 Evaluation of conformity | 8 |
| 5.1 General..... | 8 |
| 5.2 Initial type testing or assessment | 9 |
| 5.2.1 General..... | 9 |
| 5.2.2 Sampling..... | 9 |
| 5.2.3 Characteristics to be initial type tested or assessed | 9 |
| 5.3 Factory production control..... | 11 |
| 5.3.1 General..... | 11 |
| 5.3.2 Characteristics of the finished product to be control tested | 11 |
| 6 Marking | 12 |
| Z.1 Scope and relevant characteristics | 17 |
| Z.2 Procedure for attestation of conformity of laminated veneer lumber | 18 |
| Z.2.1 System of attestation of conformity..... | 18 |
| Z.2.2 EC Certificate and Declaration of conformity | 20 |
| Z.3 CE Marking..... | 21 |
| Bibliography | 23 |

Foreword

This document (EN 14374:2004) has been prepared by Technical Committee CEN/TC 124 "Timber Structures", the secretariat of which is held by SFS.

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 May 2005, and conflicting national standards shall be withdrawn at the latest by May 2005.

No existing European Standards are superseded.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s). For relationship with EU Directive(s), see informative annex ZA, which is an integral part of this document.

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

EN 14374:2004 (E)

1 Scope

This document specifies the requirements for laminated veneer lumber for structural applications. The tests to be used, methods to carry out the evaluation of conformity and content of the marking of the product are given.

This document does not cover laminated veneer lumber treated against biological attack or fire.

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 314-1, *Plywood – Bonding quality – Part 1: Test methods.*

EN 322, *Wood-based panels – Determination of moisture content.*

EN 323, *Wood-based panels – Determination of density.*

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 408, *Timber structures – Structural timber and glued laminated timber – Determination of some physical and mechanical properties.*

ENV 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 1438:1998, *Symbols for timber and wood-based products.*

EN 13501-1, *Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests.*

prEN 14358, *Structural timber – Calculation of characteristic 5-percentile value.*

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-