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National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 391:2002

ICS 79.060.99

GLUED LAMINATED TIMBER - DELAMINATION TEST OF GLUE LINES

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EUROPEAN STANDARD
NORME EUROPÉENNE
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EN 391

October 2001

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Supersedes EN 391:2001

English version

Glued laminated timber - Delamination test of glue lines

Bois lamellé collé - Essai de délamination des joints de collage

Brettschichtholz - Delaminierungsprüfung von Klebstofffugen

This European Standard was approved by CEN on 3 September 2001.

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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 124 "Timber structures", the secretariat of which is held by DS.

This European Standard supersedes EN 391:1995.

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of an identical text or by endorsement, at the latest by April 2002, and conflicting national standards shall be withdrawn at the latest by April 2002.

NOTE It is considered desirable to maintain the same clause numbers consistently throughout this series of standards. Consequently, some clauses are void in this edition of this standard, but it is envisaged that future editions may need to include text in the clauses.

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.

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Introduction

Two delamination methods called A and B are suitable for adhesives of type I as defined in EN 301, and one method called C is suitable for adhesives of type II as defined in EN 301.

The two methods A and B have a duration of two days and a half day respectively, and method C requires four days. All are suitable for every day quality control.

1 Scope

This standard specifies three delamination methods for continuous quality control of the glue line integrity of glued laminated timber.

2 Normative references

None.

3 Terms and definitions

For the purposes of this European Standard the following terms and definitions apply:

3.1
delamination length
sum of the lengths of delaminated glue lines on both end-grain surfaces of each test piece

3.2
glued laminated timber (glulam)
structural member formed by bonding together timber laminations with the grain essentially parallel

4 Symbols

b	width of cross section, in millimetres;
h	depth of cross section, in millimetres;
$l_{max,delam}$	maximum delamination length of one glue line in the test piece, in millimetres;
$l_{glueline}$	length of one glue line, normally the width b shown in Figure 1, in millimetres;
$l_{tot,delam}$	delamination length of all glue lines in the test piece, in millimetres;
$l_{tot,glueline}$	entire length of glue lines on the two end-grain surfaces of each test piece, in millimetres.

5 Requirements

None.

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