

Träbaserade skivor – Flytande golv –
Del 1: Specifikationer och funktionskrav

Wood-based panels – Floating floors –
Part 1: Performance specifications and
requirements

Europastandarden EN 13810-1:2002 gäller som svensk standard. Detta dokument innehåller den officiella engelska versionen av EN 13810-1:2002.

The European Standard EN 13810-1:2002 has the status of a Swedish Standard. This document contains the official English version of EN 13810-1:2002.

Dokumentet består av 21 sidor.

Upplysningar om **sakinnehållet** i standarden lämnas av SIS, Swedish Standards Institute, tel 08 - 555 520 00.

Standarder kan beställas hos SIS Förlag AB som även lämnar **allmänna upplysningar** om svensk och utländsk standard.

Postadress: SIS Förlag AB, 118 80 STOCKHOLM
Telefon: 08 - 555 523 10. *Telefax:* 08 - 555 523 11
E-post: sis.sales@sis.se. *Internet:* www.sis.se

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 13810-1

December 2002

ICS 79.060.01

English version

Wood-based panels - Floating floors - Part 1: Performance specifications and requirements

Panneaux à base de bois - Planchers flottants - Partie 1:
Exigences et spécifications fonctionnelles

Holzwerkstoffe - Schwimmend verlegte Fußböden - Teil 1:
Leistungsspezifikationen und Anforderungen

This European Standard was approved by CEN on 23 October 2002.

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 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 Management Centre 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, Malta, Netherlands, Norway, Portugal, 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

Contents

	page
Foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions.....	6
4 Specifications.....	6
4.1 Wood-based panel decking	6
4.1.1 General.....	6
4.1.2 Durability.....	8
4.1.3 Mechanical properties	10
4.2 Supporting material	11
4.3 Vapour control layer	11
5 Performance requirements	11
5.1 Stiffness	11
5.2 Loads and deflection limits.....	11
6 Sampling	12
7 Documentation	13
Annex A (informative) Installation of floating floors.....	14
A.1 Examples for floating floors	14
A.2 Moisture during installation.....	16
A.3 Moisture content in use.....	16
A.3.1 General.....	16
A.3.2 Damp-proof membrane	16
A.3.3 Vapour control layer	16
A.3.4 Panel type	17
A.4 Installation	17
A.4.1 Sub-floors	17
A.4.2 Supporting material	18
A.4.3 Installation of panels	18
Bibliography	19

Foreword

This document (EN 13810-1:2002) 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 June 2003, and conflicting national standards shall be withdrawn at the latest by June 2003.

This standard is one of two performance standards for wood-based panels used in floating floors.

No existing European Standard is superseded.

Annex A is informative.

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, Malta, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

EN 13810-1:2002 (E)**1 Scope**

This European Standard provides the performance specifications and requirements for wood-based panels used in continuously fully supported non-structural floating floors.

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 (including amendments).

General

EN 318, *Wood-based panels — Determination of dimensional changes associated with changes in relative humidity.*

EN 321, *Wood-based panels — Determination of moisture resistance under cyclic test conditions.*

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

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

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 1087-1, *Particleboards — Determination of moisture resistance — Part 1: Boil test.*

EN 1195, *Timber structures — Test methods — Performance of structural floor decking.*

EN 12369-1, *Wood-based panels — Characteristic values for structural design — Part 1: OSB, particleboards and fibreboards.*

EN 12871:2001, *Wood-based panels — Performance specifications and requirements for load bearing boards for use in floors, walls and roofs.*

EN 1991-1-1, *Eurocode 1: Actions on structures — Part 1-1: General actions; Densities, self-weight and imposed loads for buildings.*

ENV 1995-1-1:1993, *Eurocode 5 — Design of timber structures — Part 1-1: General rules and rules for buildings.*

prCEN/TS 13810-2, *Wood-based panels — Floating floors — Part 2: Test methods.*

Particleboards

EN 312-1, *Particleboards — Specifications — Part 1: General requirements for all board types.*

EN 312-4, *Particleboards — Specifications — Part 4: Requirements for load-bearing boards for use in dry conditions.*

EN 312-5, *Particleboards — Specifications — Part 5: Requirements for load-bearing boards for use in humid conditions.*

EN 312-6, *Particleboards — Specifications — Part 6: Requirements for heavy duty load-bearing boards for use in dry conditions.*

EN 312-7, *Particleboards — Specifications — Part 7: Requirements for heavy duty load-bearing boards for use in humid conditions.*

OSB

EN 300, *Oriented Strand Boards (OSB) — Definitions, classification and specifications.*

Plywood

EN 313-1, *Plywood — Classification and terminology — Part 1: Classification.*

EN 313-2, *Plywood — Classification and terminology — Part 2: Terminology.*

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 635-1, *Plywood — Classification by surface appearance — Part 1: General.*

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

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

EN 636-1, *Plywood — Specifications — Part 1: Requirements for plywood for use in dry conditions.*

EN 636-2, *Plywood — Specifications — Part 2: Requirements for plywood for use in humid conditions.*

EN 636-3, *Plywood — Specifications — Part 3: Requirements for plywood for use in exterior conditions.*

ENV 1099, *Plywood — Biological durability — Guidance for the assessment of plywood for use in different hazard classes.*

Solid wood panels

EN 12775, *Solid wood panels — Classification and terminology.*

EN 13017-1, *Solid wood panels — Classification by surface appearance — Part 1: Softwood.*

EN 13017-2, *Solid wood panels — Classification by surface appearance — Part 2: Hardwood.*

prEN 13353, *Solid wood panels (SWP) — Requirements.*

prCEN/TS 13354, *Solid wood panels — Bonding quality — Test method.*

Fibreboard

EN 622-1, *Fibreboards — Specifications — Part 1: General requirements.*

EN 13810-1:2002 (E)

EN 622-2, *Fibreboards — Specifications — Part 2: Requirements for hardboards.*

EN 622-3, *Fibreboards — Specifications — Part 3: Requirements for medium boards.*

EN 622-5, *Fibreboards — Specifications — Part 5: Requirements for dry process boards (MDF).*

Cement bonded particleboards

EN 634-1, *Cement-bonded particleboards — Specifications — Part 1: General requirements.*

EN 634-2, *Cement-bonded particleboards — Specifications — Part 2: Requirements for OPC bonded particleboards for use in dry, humid and exterior conditions.*

3 Terms and definitions

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

3.1 floating floor

decking of wood-based panels continuously supported by one or more resilient materials, without being fixed to the floor base

3.2 service class

see ENV 1995-1-1:1993

4 Specifications

4.1 Wood-based panel decking

4.1.1 General

Any load-bearing panel complying with EN 13986 may be used as floating floor systems.

Specifications shall take into account the factors given in Tables 1 and 2.

Table 1 — Characteristics of panel products to be considered in specifications

Particleboard	OSB	Plywood and solid wood panel	Fibreboard	Cement bonded particleboard
Grade	Grade	Lay-up	Grade	Grade
Thickness	Thickness	Wood-species	Thickness	Thickness
Service class	Service class	Surface appearance class	Service class	Service class
		Thickness		
		Service class		