



SLOVENSKI STANDARD
SIST EN 636:2013/kFprA1:2014
01-september-2014

Vezane plošče - Specifikacije

Plywood - Specifications

Sperrholz - Anforderungen

Contreplaqué - Exigences

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Ta slovenski standard je istoveten z: EN 636:2012/FprA1

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ICS:

79.060.10 Vezan les Plywood

SIST EN 636:2013/kFprA1:2014 **en,fr,de**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

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English Version

Plywood - Specifications

Contreplaqué - Exigences

Sperrholz - Anforderungen

This draft amendment is submitted to CEN members for unique acceptance procedure. It has been drawn up by the Technical Committee CEN/TC 112.

This draft amendment A1, if approved, will modify the European Standard EN 636:2012. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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-CENELEC Management Centre has the same status as the official versions.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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classes for plywood catalog/standards/sist/63a88b0-1afb-4fe1-a824-

f1945ecd103c/sist-en-636-2013-kfprA1-2014

Foreword

This document (EN 636:2012/FprA1:2014) has been prepared by Technical Committee CEN/TC 112 “Wood-based panels”, the secretariat of which is held by DIN.

This document is currently submitted to the Unique Acceptance Procedure.

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EN 636:2012/FprA1:2014 (E)**1 Modification to Clause 1, Scope**

Replace the text of the scope by the following one:

This European Standard specifies the requirements for plywood, as defined in EN 313-2, for both general purpose use (non-structural application) and structural application in dry, humid or exterior conditions. It also gives a classification system based on the bending properties.

NOTE 1 This European Standard is referenced in EN 13986 for construction applications.

This standard can be appropriately applied for all plywood, including overlaid and coated plywood, but it does not cover materials or processes used for overlaying or coating. Neither does it cover any materials or processes applied in relation to enhancement of biological durability.

NOTE 2 For additional guidance on biological durability and the potential need for preservative treatment, according to application and serviceability, reference can be made to CEN/TS 1099.

The values listed under Clause 4 relate only to product properties; they are not 'characteristic values' and are not to be used in design calculations.

NOTE 3 Characteristic values (i.e. for use in design calculation according to EN 1995-1-1) are given either in EN 12369-2 which is based on the classification system given in this standard or by the manufacturer based on testing according to EN 789, EN 1058 and ENV 1156.

Additional information on supplementary properties for certain applications is also given.

2 Modification in 12.1, Boards marketed within the European Economic area for construction applications

Replace the existing text by the following one:

Boards produced in conformity with this European Standard and marketed in any of the territories of the EEA for use in construction as defined in the Construction Products Regulation (n°305/2011) shall be marked according to the requirements of EN 13986.

Complementary, each board or package shall be clearly marked by the manufacturer by indelible direct printing with the following information:

- the number of this European standard (EN 636) and the conditions of use (-1 for use in dry conditions, -2 for use in humid conditions, -3 for use in exterior conditions)
- the letter corresponding to the intended application "S" for structural application or "NS" for general purpose (non-structural application)
- the commercial name or botanic name of the wood species in the plywood.

3 Modification in 12.2, Other boards

Add as a new indent 3 in the first list:

- the commercial name or botanic name of the wood species in the plywood;

4 Add a New Annex B (informative), Durability of wood and wood-based products - Definition of Use classes of biological attack- Application to plywood

Annex A
(normative)

Supplementary properties

No change

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Annex B (informative)

Durability of wood and wood-based products - Definition of Use classes of biological attack- Application to plywood

B.1 Scope

This annex gives guidance on the application of the use class system, as defined in EN 335:2013, to plywood in relation only to the biological agencies that can attack plywood over duration sufficient to result in deterioration.

B.2 General

As a result of the different compositions and methods of production of plywood in a given environment, the equilibrium moisture content and risk of biological attack can differ from those of the solid wood from which the panels are made.

Moisture content helps to classify the risk of attack by the various biological agents which affect the durability of structural and non-structural wood components

B.3 Use class 1

In this environment, plywood have moisture content no higher than that which would result from exposure to an air temperature of 20° C and a relative humidity of 65 % for practically the whole of their service life. They may therefore be regarded as being dry, and thus the risk of attack by surface moulds or by staining or wood-destroying fungi is insignificant.

Attack by wood-destroying insects, including termites, is possible but the frequency and importance of this risk depends upon the geographical region. Attack by beetles can also depend upon choice of veneer with respect to species and thickness.

Beetles are present throughout Europe but the risk of attack varies greatly from high to insignificant. If national standards do not specify the risk of insect attack, local or national experts should be consulted for advice on the risk of insect attack

B.4 Use class 2

In this environment, the moisture content of a plywood panel, either in the whole or only in part, can occasionally attain or exceed that which would result from exposure to an air temperature of 20° C and a relative humidity of 90 %. The moisture content can therefore occasionally increase to a level which can allow the growth of wood-destroying fungi.

For panels the use of which includes a decorative function, disfigurement can also occur as a result of the growth of surface moulds and staining fungi.

Risk of insect attack is similar to that for use class 1.

B.5 Use class 3

In this environment plywood can frequently have moisture content above 20 % and thus will often be liable to attack by wood-destroying fungi.

For panels the use of which includes a decorative function, disfigurement can also occur as a result of the growth of surface moulds and staining fungi.

Risk of insect attack is similar to that for use class 1

B.6 Use class 4

In this environment plywood have moisture content permanently above 20 % and thus are liable to attack by wood-destroying fungi.

NOTE The use of plywood in this use class is appropriate only if the inherent and/or conferred properties of the boards are adequate.

Risk of insect attack to the above ground or water portion of components is similar to that for use class 1. Termites can be an additional problem in certain geographical regions

B.7 Use class 5

In this environment plywood have moisture content permanently above 20 % and are wholly or partially submerged in salt water. Attack by invertebrate marine organisms is therefore the principal problem. Particularly in warmer waters, organisms such as *Limnoria* spp and *Teredo* spp can cause significant damage. In addition, in this environment plywood are liable to attack by wood-destroying fungi.

NOTE The use of plywood in this use class is appropriate only if the inherent and/or conferred properties of the boards are adequate. <https://standards.itech.ai/catalog/standards/sist/63af88b0-1afb-4fe1-a824-f1945ecd103c/sist-en-636-2013-kfpra1-2014>

Risk of insect attack to the portion above the water level is similar to that for use class 1. Termites can be an additional problem in certain geographical regions.

B.8 Summary of Use classes for plywood

Table B.1 gives general moisture levels for plywood and a summary of the biological agencies which can attack them in the various use classes.