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English Version

Plywood - Biological durability - Guidance for the assessment of plywood for use in different use classes

Contreplaqué - Durabilité biologique - Guide d'utilisation dans les différentes classes d'emploi

Sperrholz - Biologische Dauerhaftigkeit - Leitfaden zur Beurteilung von Sperrholz zur Verwendung in verschiedenen Gebrauchsklassen

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Foreword

This document (CEN/TS 1099:2007) has been prepared by Technical Committee CEN/TC 112 "Wood-based panels", the secretariat of which is held by DIN.

This document supersedes ENV 1099:1997.

Compared to ENV 1099:1997 the following changes have been made:

- "hazard class" has been replaced by "use class" in accordance with EN 335-1:2006;
- Clause 2 and the Bibliography have been updated;
- the deliverability has been changed from ENV to CEN/TS. No technical changes have been made.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to announce this Technical Specification: 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, nt agglo. Sweden, Switzerland and the United Kingdom.

1 Scope

This document gives guidance on the selection of plywood for use in the different use classes as defined in EN 335-1.

The guidance given takes into account the natural durability classification for solid timber (see EN 350-2) together with other factors specific for plywood.

It does not consider durability against chemico-physical factors, such as weathering, nor does it consider the biological durability of the adhesive.

Guidance on precautionary measures for use is also given.

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 313-2:1999, Plywood — Classification and terminology — Part 2: Terminology

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 313-2:1999 apply.

4 Precautionary measures for use

4.1 Rules for selection

Plywood should be selected according to the relevant use classes of its end use situation and taking into account any risk from perceived hazards likely to occur.

Five use classes have been identified as being representative of the various conditions the material is likely to meet. These five classes are defined in EN 335-1 and their applications for plywood in EN 335-3.

The risk of biological attack can differ for different end-uses within the same use class.

If the use class cannot be determined accurately or when different parts of the same plywood panel are exposed to different use classes, selection should be made with regard to the most severe of the probable use classes.

When a plywood component would be difficult to replace, or the consequences of its failure would be serious, it is advisable to use more durable plywood than that normally appropriate for the use class of the end use situation.

4.2 Use of treated plywood

With some preservative products, a risk of excessive leaching exists¹⁾. If the specified preservative product is leachable, it is essential that the panel is covered, or otherwise protected, after treatment and during transport and construction, as well as in service.

¹⁾ Leaching to a level where the conferred durability is compromised.