

ICS 79.080
CCS B 70

LY

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

LY/T 1854-2020

Replacing LY/T 1861-2009; LY/T 1854-2009

**Wood flooring for high-humidity conditions in door and outdoor
use**

室内高湿场所和室外用木地板

(English Translation)

Issued on: December 29, 2020

Implemented on: June 1, 2021

Issued by: State Forestry and Grassland Administration

Table of Contents

Foreword
1 Scope
2 Normative references
3 Terms and definitions
4 Categories
4.1 Classified by place of use
4.2 According to the method of surface decoration
5 Requirements
5.1 Specifications and deviations
5.2 Appearance quality
5.3 Physical and chemical properties
6 Inspection method
6.1 Specification and size inspection
6.2 Appearance quality inspection
6.3 Physical and chemical performance inspection

Foreword

This document is in accordance with GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

Appendix A and Appendix B of this document are informative appendices.

This document is the integration of LY/T 1854-2009 "Wooden Floors for Indoor High Humidity Places" and LY/T 1861-2009 "Wooden Floors for Outdoors" Revised.

Compared with LY/T 1854-2009 "Wooden Floors for Indoor High Humidity Places" and LY/T 1861-2009 "Wooden Floors for Outdoors", the main the main technical content changes are as follows.

- Modified terms and definitions (see 3.1, 3.2);

--- Added product classification (see 4.1, 4.2);

--Modified the specification size deviation, canceled the edge straightness and perpendicularity technical requirements (see 5.1, Table 2, LY /1854-2009,

Table 2 in LY /1861-2009);

- Cancel the appearance quality classification (see 5.2, Table 1 in LY /1854-2009, Table 1 in LY /1861-2009);

- Adjusted the technical requirements for the moisture content of wooden floors (see 5.3.1, Table 3 in LY /1854-2009, Table 3 in LY /1861-2009);

- Modified the technical requirements and test methods for the surface moisture and heat resistance of wooden flooring used in indoor high-humidity places (see 6.3.5 LY /1854-2009) Medium 5.3.4);

- The technical requirements and test methods for bending load are changed to the technical requirements and test methods for static bending strength (see 6.3.6, LY /1854-2009)

5.3.7 LY /1861-2009 5.3.4);

- Deleted the technical requirements and test methods of immersion peel test (LY /1854-2009 in 5.3.8, LY /1861-2009 in 5.3.5);

- Added the test method of total organic volatiles (see 6.3.9);

- Added technical requirements and test methods for resistance to artificial weathering (see 6.3.11).

Please note that certain contents of this document may involve patents, and the issuing agency of this document does not bear the responsibility for identifying these patents.

This document was proposed and managed by the National Wood-based Panel Standardization Technical Committee (SAC/TC198).

1 Scope

This document specifies the terms and definitions, classification, requirements, inspection methods, and inspection rules for wooden floors for indoor high-humidity places and outdoor use.

As well as identification, packaging, transportation and storage.

This document applies to wood floors as defined in 3.1 and 3.2.

2 Normative references

The contents of the following documents constitute indispensable clauses of this document through normative references in the text. Among them, dated reference documents, Only the dated version is applicable to this document; for undated references, the latest version (including all amendments) is applicable to this document.

GB/T 9261-2008 Deck paint GB/T 15036.2-2018 Solid Wood Flooring Part 2 Inspection Method GB/T 17657-2013 Test method for physical and chemical properties of wood-based panels and facing wood-based panels GB/T 18259-2018 Artificial board and its surface decoration terms GB 18580-2017 Indoor decoration and refurbishment materials-Man-made panels and their products in formaldehyde emission limit GB/T 29899-2013 Test method for the emission of organic volatile compounds in wood-based panels and their products. Small-scale release chamber method GB/T 31757-2015 Anticorrosive solid wood flooring for outdoor use

3 Terms and definitions

The following terms and definitions defined in GB/T 18259-2018 apply to this document.

Wood flooring used in high-humidity condition indoor it is made of wood or longitudinally extending wood and is suitable for wood floors in high humidity environments such as saunas and bathrooms.

Wood flooring for outdoor use it is made of wood or longitudinally finger-joined wood, suitable for outdoor use, but should avoid wooden floors soaked in water.

4.1 Classified by place of use

- a) Wooden floors for indoor high-humidity places;
- b) Wooden floor for outdoor use;

4.2 According to the method of surface decoration

- a) Unpainted wooden floor for indoor high-humidity places;
- b) Coating wood floors for indoor high-humidity places;

5.1.1 Size

The size of wood flooring used in indoor high-humidity places is generally (300-1000)mmx(30-150)mmx(12-30)mm.

The size of outdoor wooden floor is generally 1500mmx(50-250)mmx(12-30)mm.

Other specifications and dimensions can be negotiated and decided by both parties.

5.1.2 The size deviation should meet the requirements of Table 1 and Table 2 respectively.

Table 1 Dimensional deviation of wood flooring used in indoor high-humidity places

5.2 Appearance quality

The appearance quality should meet the requirements of Table 3 and Table 4 respectively.

Note: Scratches and wrinkles of unpainted indoor and outdoor wooden floor paint film are not required.

5.3 Physical and chemical properties

5.3.1

The physical and mechanical properties should meet the requirements of Table 5.

5.3.2

The total volatile organic compounds of wooden floors used in indoor high-humidity places should be less than or equal to 0.50mg/m³.

5.3.3

The formaldehyde emission of wooden flooring used in indoor high-humidity places shall meet the requirements of GB 18580-2017.

5.3.4

The anti-corrosion performance of outdoor wooden floor meets the requirements of 5.4 in GB/T 31757-2015.

6.1 Specification and size inspection

Carry out in accordance with the provisions of 3.1 in GB/T 15036.2-2018.

6.2 Appearance quality inspection

According to the provisions of 3.2 in GB/T 15036.2-2018.

6.3.1 Preparation and size specification of samples and test pieces

Samples and samples should be taken from products stored for more than 24 hours. The size and quantity of test pieces shall be made according to the requirements of Table 6.

6.3.2 Moisture content

According to the provisions of 4.3 in GB/T 17657-2013.

6.3.3 Surface wear resistance

According to the provisions of 4.11 in GB/T 17657-2013. Treatment of unbalanced specimens.