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

LY/T 3221-2020

Solid wood wall panel

实木壁板

(English Translation)

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Table of Contents

Foreword	
1 Scope	
2 Normative references	
3 Terms and definitions	
4 Categories	
4.1 Classification by side and end surface processing methods	
4.2 Classification by base material	
4.3 Classification according to whether the surface is painted or not	
4.4 Classification by surface finish type	
5 Technical requirements	
5.1 Classification	
5.2 Specifications and deviations	
5.3 Appearance quality	
5.4 Physical and chemical properties	
6 Inspection method	
6.1 Inspection of specifications and deviations	

Foreword

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

1 Scope

This document specifies the terms and definitions, classification, technical requirements, inspection methods, inspection rules, signs, packaging, and transportation of solid wood siding.

Requirements for transportation, storage, etc.

This document applies to solid wood siding as specified in 3.1.

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 file.

GB/T 2828.1-2012 Sampling inspection procedure by attributes Part 1: Batch inspection sampling plan retrieved by acceptance quality limit (AQL) GB/T 4823-2013 sawn timber defects GB/T 4893.4-2013 Furniture surface paint film physical and chemical properties test Part 4: Adhesion cross-cut determination method GB/T 15036.1-2018 Solid Wood Flooring Part 1: Technical Requirements GB/T 17657-2013 Test method for physical and chemical properties of wood-based panels and facing wood-based panels GB 18584-2001 Limits of harmful substances in wooden furniture for interior decoration and refurbishment materials LY/T 2488-2015 solid wood splicing board

3 Terms and definitions

The following terms and definitions defined in GB/T 4823-2013, GB/T 15036.1-2018, and LY/T 2488-2015 apply to this document.

Solid wood wall panel the interior wall decorative board directly processed from solid wood.

Mortised joint solid wood wall panel the side and end structures are solid wood siding panels with tongue and tongue.

Overlap joint solid wood wall panel the side structure is a stepped solid wood siding.

Even joint solid wood wall panel the side structure is flat solid wood siding.

Edge-glued solid wood pannel Solid wood siding made of solid wood splicing boards.

Unlacquered solid wood wall panel Solid wood siding without any finishing on the surface.

Lacquered solid wood wall panel Solid wood siding with painted surface.

Varnished solid wood wall panel Solid wood siding with oiled surface.

4.1 Classification by side and end surface processing methods

--Ton-joint solid wood siding, as shown in diagram 1;

---Cut solid wood siding, as shown in diagram 2;

--Flat joint solid wood siding, as shown in Diagram 3.

Figure 1 Tenon-joined solid wood siding

Figure 2 Cut-out solid wood siding

Figure 3 Flush solid wood siding

4.2 Classification by base material

- splicing solid wood siding, as shown in diagram 4;
- Unspliced solid wood siding, as shown in Diagram 5.

Figure 4 Splicing solid wood siding

Figure 5 Unspliced solid wood siding

4.3 Classification according to whether the surface is painted or not

- Finishing solid wood siding;
- Unpainted solid wood siding.

4.4 Classification by surface finish type

- Lacquered solid wood siding;
- Oil decorated solid wood siding.

5.1 Classification

Solid wood siding can be divided into superior product, first-class product and qualified product according to appearance quality and physical and chemical properties.

5.2.1 Specifications and dimensions

5.2.1.1

The specifications and dimensions of solid wood siding shall meet the requirements of Table 1.

5.2.1.2

The size requirements of the base material unit of spliced solid wood siding;

Splice the solid wood siding base material unit, as shown in diagram 6;

5.2.1.3

Products of other sizes can be implemented according to the agreement between the supplier and the buyer.

5.2.1.4

According to the installation needs, the wall panels with the same width and thickness with a ratio area of not more than 5% and length less than the nominal size can be matched in the wall panels sold.

5.2.2 Dimensional deviation

5.2.2.1

The size deviation of solid wood siding shall meet the requirements of Table 3.

5.2.2.2

Length and width do not include the net length and net width of the tongue part.

5.2.3 Shape position deviation

The shape and position deviation should meet the requirements of Table 4.

5.3 Appearance quality

5.3.1

The appearance quality of solid wood siding of hardwood species should meet the requirements of Table 5.

Note 1: Any defect that cannot be clearly observed under the environmental conditions of appearance quality inspection is not obvious.

Note 2: The length of tongue lacking refers to the cumulative length of tongue lacking.

5.3.2

The appearance quality of solid wood siding of conifer species should meet the requirements of Table 6.

Note 1: Any defect that cannot be clearly observed under the environmental conditions of appearance quality inspection is not obvious.

Note 2: The length of tongue lacking refers to the cumulative length of tongue lacking.

5.3.3

The appearance quality requirements of solid wood siding can be implemented in accordance with the agreement between the supplier and the buyer.

5.4 Physical and chemical properties

5.4.1

The physical and chemical properties should meet the requirements of Table 7.

5.4.2

Refer to Appendix A for the average annual average moisture content of timber in various regions of my country.