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LY

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

LY/T 3139-2019

Wood siding wall for building solid

建筑墙面用实木挂板

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

Please note that some elements of this standard may involve patents. The issuer of this standard is not responsible for identifying these patents.

This standard was proposed and managed by the National Timber Standardization Technical Committee Structural Timber Subcommittee (SAC/TC41/SC4).

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1 Scope

This standard specifies the definition, classification, technical requirements, inspection methods, inspection rules, packaging, marking, Transportation and storage.

This standard is applicable to solid wood hanging boards for interior and exterior walls of building walls.

2 Normative references

The following documents are essential for the application of this standard. For dated references, only the dated version applies to this document.

For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2828.1-2012 Counting sampling inspection procedures-Part 1. Batch inspection sampling meter retrieved by acceptance quality limit GB/T 8624-2012 Combustion performance classification of building materials and products GB/T 15036.2-2009 Solid wood flooring Part 2. Inspection methods GB/T 16734-1997 Chinese main timber names GB/T 18513-2001 Names of major timber imports in China GB/T 23229-2009 Waterborne wood preservative analysis method GB/T 27651-2011 Classification and requirements for the use of antiseptic wood GB/T 33021-2016 Analytical method for organic wood preservatives--Sanwa and Benzimid GB 50222-2015 Code for fire protection design of building interior decoration GB/T 51226-2017 Technical standards for multi-tall timber structure buildings

3 Terms and definitions

The following terms and definitions apply to this document.

Wood siding

Solid wood wall panels installed on the facade of the building wall or solid wood panels processed longitudinally.

4.2.2 Functional solid wood hanging board

- a) Anti-corrosion and insect-resistant solid wood hanging boards, CCA wood preservatives are restricted;
- b) Flame-resistant solid wood hanging boards. Indoor wood hanging boards are limited to

formaldehyde and solvent-based flame retardants and flame retardant coatings.

c) Heat-treated solid wood hanging boards.

5.1.1 Specifications

Common specifications. length..2000-6000mm, width. 50-180mm, thickness. 9-25mm.

5.1.2 Dimensional Deviation

The dimensional deviation of solid wood hanging boards shall meet the requirements of Table 1.

Table 1 Dimensional deviation of solid wood hanging boards for building walls

Inspection item size deviation/mm Allowable deviation of length ± 20 mm when nominal width $W \leq 90$ mm, allowable deviation ± 1.0 mm when nominal width $W > 90$ mm, allowable deviation ± 1.5 mm when the nominal thickness $T \leq 15$ mm, the allowable deviation is ± 0.5 mm for nominal thickness $T > 15$ mm, allowable deviation ± 1.0 mm

5.2 Appearance quality

5.2.1

The appearance quality of solid wood hanging boards with a width of less than 120mm shall meet the requirements of Table 2.

Table 2 Appearance quality requirements of solid wood hanging boards for building walls

Test items

Exterior wall solid wood hanging board	Interior wall solid wood hanging board	First-class qualification
Missing and decaying knots are not allowed	Length per meter Degree knot	
Diameter and Number > 30 mm	Not allowed	2 Not allowed
Not allowed 20 ~ 30 mm	Not allowed 2 3	Not allowed 2 10 ~ 20 mm 1 2 3
Not allowed 1 2 10 mm or less 2 4	Not allowed 3 5	Blue change not allowed slightly 40% not allowed
Cracking is not allowed	Not allowed	Not allowed
Not allowed	Not allowed	Distortion is not allowed
Slight color difference is slight		
Defect repair is not allowed 1 3	Not allowed 1 1	Damage and damage are not allowed

5.2.2

In the appearance quality of wood hanging board width greater than 120mm, the diameter of knots per meter length is allowed to increase by 10mm, and the number of knots is doubled.

5.3 Physical and chemical properties

The physical and chemical properties of solid wood hanging boards shall meet the requirements of Table 3.

Table 3 Physical and chemical performance requirements of solid wood hanging boards for building walls

Inspection item Solid wood hanging board for inner wall surface Solid wood hanging board for outer wall surface Moisture content is not more than 14% and not more than 19% Antiseptic performance (medicine loading, Penetration) Drug loading and penetration are in accordance with C3.1 of GB/T 27651-2011 Regulations.

Flame retardant performance meets B1 requirements in GB/T 8624-2012, impregnation resistance Flame retardant or coated Meet the requirements of Class B1 in GB/T 8624-2012, impregnated flame retardant or Coating flame retardant

6.1 Appearance quality

The sample is inspected block by block, and the appearance quality is determined according to 5.2.

6.2.1 Length

Measure with a rigid tape measure to the nearest 1mm.

6.2.2 Width

Measure the width with a tape measure to the nearest 1 mm.

6.2.3 Thickness

Measure the thickness with a caliper to the nearest 0.1 mm.

6.3.1 Water content

Tested in accordance with 4.3 of GB/T 17657-2013.

6.3.2 Anticorrosive performance

According to GB/T 23229-2009 and GB/T 33021-2016 specified drug loading and penetration measurement methods.

6.3.3 Flame retardant properties

The solid wood hanging boards for external walls are tested in accordance with GB/T 8624-2012, and the solid wood hanging boards for internal walls are tested according to GB