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

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**Test methods of structural insulated panel walls of timber
structures**

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Foreword

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

1 Scope

This standard specifies the terms and definitions of structural wood-paneled insulation wall, environmental adjustment, internal bonding performance, shear performance (short-term addition)

Load), accelerated aging performance, compression performance, lintel bending resistance, in-plane stiffness and strength under horizontal monotonic load, out-of-plane bending performance

And test methods such as heat transfer coefficient.

This standard is applicable to wooden cladding panel insulation wall with wood structural board as the surface layer and thermal insulation material as the core layer. The other structure is covered with bamboo.

The board insulation wall can be referred to for execution.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

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

GB/T 13475 Determination of adiabatic steady-state heat transfer properties - Calibration and protection hot box method

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Structural insulation board structuralinsulatedpanel;SIP

a composite composite structural panel formed by a two-layer structure using a wood board and a core material bonded to the intermediate layer, wherein the core material is hard,

A lightweight, homogeneous, thermally inert material with a shear strength.

3.2

Structure with wooden cladding insulation wall structuralinsulatedwoodbasedpanelwals

Insulation wall made mainly of structural insulation board.

Note. Schematic diagram of structural insulation board is shown in Figure 1.

Figure 1 Schematic diagram of structural insulation board

4.1 Standard environmental adjustment

The test piece shall be placed in a standard environment with a temperature of $(20 \pm 2) ^\circ \text{C}$ and a relative humidity of $(65 \pm 5)\%$ to constant weight. Should be at least one