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Electric heating wooden floor with built-in heating layer

内置电热层电采暖木质地板

(English Translation)

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Foreword

This standard is compiled in accordance with the rules given in GB/T 1.1-2009.

Please note that certain contents of this document may involve patents. The issuing agency of this document is not responsible for identifying these patents.

This standard was proposed and managed by the National Wood-based Panel Standardization Technical Committee (SAC/TC 198).

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This standard was issued for the first time.

Built-in electric heating layer electric heating wooden floor

1 Scope

This standard specifies the terms and definitions, classification, requirements, test methods, inspection rules, signs, Packaging, instructions for use, transportation and storage.

This standard applies to wooden floors with built-in electric heating layer for heating, and the rated voltage of its single-phase device does not exceed 250V.

The electric heating wooden floor with built-in electric heating layer specified in this standard must be designed, installed and used in accordance with relevant application technical specifications.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB 4208-2008 Enclosure protection grade (IP code) GB 4706.82-2007 Special requirements for soft sheet heating elements for safe room heating of household and similar electrical appliances GB/T 7287-2008 Infrared radiant heater test method GB 8702-2014 Electromagnetic environment control limits GB/T 17657-2013 Test method for physical and chemical properties of wood-based panels and facing wood-based panels GB/T 18102 impregnated paper laminated wood floor GB/T 18103-2013 Solid wood composite floor GB/T 18580 Formaldehyde emission of indoor decoration materials, artificial panels and their products HJ/T 10.2-1996 Radiation Environmental Protection Management Guidelines Electromagnetic Radiation Monitoring Instruments and Methods HJ/T 10.3-1996 Radiation Environmental Protection Management Guidelines Electromagnetic Radiation Environmental Impact Assessment Methods and Standards JG/T 286-2010 Low temperature radiation electric heating film LY/T 1700 Wooden floor for floor heating

3 Terms and definitions

The following terms and definitions apply to this document.

Heating layer

The flat heating layer encapsulated in the wooden floor, which can generate heat after being energized, and is composed of an electrical insulating material and a heating resistance material encapsulated in it the flat heating element.

Built-in electric heating layer electric heating wooden floor it is a wooden floor that is composed of a wooden base material and an electric heating layer encapsulated in it,

which can generate heat after being energized.

Built-in electric heating layer electric heating solid wood composite floor layer the solid wood composite floor is encapsulated with an electric heating layer and can generate heat after being energized.

Built-in electric heating layer electric heating impregnated paper laminated wood floor layer an electric heating layer is encapsulated inside, and the impregnated paper laminated wood floor that can generate heat after being energized.

Power density

The power per unit area on the surface of the built-in electric heating layer electric heating wooden floor, in watts per square meter (W/m²).

Normal operation

When the built-in electric heating layer electric heating wooden floor is connected to the power source, it will work according to the normal conditions of use.

Working temperature

The built-in electric heating layer electric heating wooden floor works under the rated voltage and reaches the average surface temperature of the stable working state.

Stable working condition of adequate heated the built-in electric heating layer electric heating wooden floor is energized and heated to reach a thermal equilibrium working state under normal working conditions.

Temperature rise time the built-in electric heating layer electric heating wooden floor works under normal conditions, and its surface temperature rises from room temperature to 90% of the stable working temperature.

time needed.

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Electric-to-radiant power transfer efficiency the built-in electric heating layer electric heating wooden floor works under the rated voltage until it reaches a stable working state, and then converts the input electric power into output the percentage of the total radiant flux output.

4 Categories

Classified by product.

- a) Built-in electric heating layer electric heating solid wood composite floor;
- b) Built-in electric heating layer electric heating impregnated paper laminated wood floor.