

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

JG/T 169-2005

**Light weight panels for partition walls used in buildings
(English Translation)**

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Foreword

This Standard replaces JG/T 3029-1995 Light longish panels for internal partitions in residence.

This revision extends the scope of application of light weight panels for partition walls used in buildings; it adds the terms, revises the technical requirements and test methods for light weight panels. Compared with JG/T 3029-1995, the main changes are as follows.

2 Deleted control indexes of "out heed and inter orifice, mortise and rabbet"

in size deviation; added control index of "wall thickness";

3 Modified "areal density", "air weighted sound reduction index", "bending

failure load", "impact resistance" and "drying shrinkage value" in physical and mechanical properties; added "compressive strength", "moisture content", "softening coefficient", and "heat transfer coefficient"; deleted "combustion performance";

5 Modified stipulated items of product factory inspection.

This Standard was proposed by Research Institute of Standards & Norms of Ministry of Construction.

This Standard shall be under the jurisdiction of National Technical Committee on Building Products and Components of Ministry of Construction.

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Light weight panels for partition walls used in buildings

1 Scope

This Standard specifies the terms, classification, requirements, test methods, inspection rules, marks, transport and storage of light weight panels for partition walls used in buildings (hereinafter referred to as "light weight panels").

This Standard is applicable to light weight panels for non-load bearing partition walls used in general buildings.

2 Normative references

The following standards contain the provisions which, through reference in this Standard, constitute the provisions of this Standard. The parties who enter into agreement based on this Standard are encouraged to use the latest versions apply to this Standard.

GB 2828 Sampling procedures for inspection by attributes

GB 6566 Limits of radionuclides in building materials

GB/T 9978 Fire-resistance tests - Elements of building construction

GB/T 13475 Thermal insulation - Determination of steady-state thermal transmission Properties - Calibrated and guard hot box

GB/T 17431.1 Lightweight aggregates and its test methods - Part 1.

Lightweight aggregates

GBJ 75 Acoustics-measurement of sound insulation in buildings-specifications

3 Terms and definitions

The following terms and definitions apply to this Standard.

3.1 lightweight panel

Prefabricated panel made by lightweight materials or in lightweight construction, and used for non-load bearing partition walls, of which areal density is not greater than the value stipulated in this Standard, and length-width ratio is not less than 2.5.

3.2 hollow cores panel

Prefabricated panel of which a number of through-holes along the longitudinal direction of plates.

3.3 solid panel

Prefabricated panel, without holes, that is made by materials of same kind.

3.4 composite sandwich panel

Prefabricated panel composed by two and more materials of different functions, or composed by panel (casting surface layer) and core layer material.

3.5 out heed and inter orifice

General term for mortise, rabbet and joint groove set on both sides of panel.

4.1 Classification and code

According to sectional configuration, lightweight panel is divided into hollow cores panel, solid panel and composite sandwich panel; OR ordinary panel, door frame panel and irregular panel, according to component type of panel.

The classification and code of lightweight panel are shown in Table 1.

Table 1 Classification and code of lightweight panel

Classification method	Name	Code
According to sectional configuration	Hollow cores panel	
	Solid panel	
	Composite sandwich panel	
According to component type of panel	Ordinary panel	PB
	Door frame panel	MCB
	Irregular panel	YB

4.2 Product type

The lightweight panel can be made as hollow cores, sandwich and composite sandwich type. It shall use different out heed and inter orifice, and opening but