

JGJ

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

JGJ 113-2015

Replacing JGJ 113-2009

Technical specification for application of architectural glass

建筑玻璃应用技术规程

(English Translation)

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Explanation of wording in this specification

List of quoted standards

Addition: Explanation of provisions

Foreword

According to the requirements of the "Notice on Printing and Distributing the 2014 Plan for the Formulation and Revision of Engineering Construction Standards and Codes" (Jianbiao [2013] No. 169) issued by the Ministry of Housing and Urban-Rural Development, the drafting group, through extensive investigation and research, careful summarization of practical experience, and with reference to relevant international standards and advanced foreign standards, and on the basis of widely soliciting opinions, has revised this specification.

The main technical contents of this specification are: 1. General provisions; 2. Terms; 3. Basic requirements; 4. Materials and selection; 5. Wind pressure resistance design of architectural glass; 6. Thermal breakage prevention design and measures for architectural glass; 7. Provisions for human impact safety of architectural glass; 8. Design of louver glass and roof glass; 9. Design of floor glass; 10. Design of underwater glass; 11. Design of U-profile glass walls; 12. Installation.

The main technical contents revised in this specification are: 1. design and construction of U-profile glass have been added; 2. technical requirements for the application of Low-E glass, glass for photovoltaic components and interior facing glass have been added; 3. the contents on balustrade glass, terms, etc. have been revised and improved.

The provisions printed in bold type in this specification are mandatory provisions and shall be strictly implemented.

The Ministry of Housing and Urban-Rural Development is in charge of the administration of this specification and the interpretation of the mandatory provisions, and China Building Materials Academy is responsible for the explanation of the specific technical contents. Any

comments or suggestions arising during implementation should be sent to China Building Materials Academy (address: No. 1 Guanzhuang Dongli, Chaoyang District, Beijing; postcode: 100024).

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1 General provisions

1.0.1

This specification is formulated with a view to making the application of architectural glass in building engineering safe and reliable, economical and reasonable, practical and aesthetic.

1.0.2

This specification is applicable to the design and installation of architectural glass.

1.0.3

The design and installation of architectural glass shall comply not only with this specification but also with the provisions of the relevant current national standards.

2.0.1 architectural glass

General term for glass applied in buildings.

2.0.2 strength on center area of glass

Fracture strength of the central area of the glass under a load perpendicular to the surface of the glass pane.

2.0.3 strength on border area of glass

Fracture strength of the border area of the glass under a load perpendicular to the surface of the glass pane.

2.0.4 strength on edge of glass

Tensile strength of the end face of the glass under a load perpendicular to the cross-section of the glass.

2.0.5 single glass

General term for flat glass, coated glass, tinted glass, heat-strengthened glass, tempered glass, etc.

2.0.6 framed glazing

Glass of which all edges are continuously enclosed by supporting members of sufficient stiffness.

2.0.7 free edge of glass

Edge of glass that is not enclosed by supporting members of sufficient stiffness.

2.0.8 facing glass in room

Architectural decorative glass fixed on interior walls.

2.0.9 roof glass

Glass installed on the roof of a building at an angle to the horizontal plane of 75° or less.

2.0.10 floor and stairway glazing

Glass used as a floor surface, including glass for glass floors, glass walkways and glass stair treads.