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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Flat Glass Manufacturers Association of Japan (FGMAJ)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS R 3209: 2018**), which has been technically revised.

However, **JIS R 3209: 2018** may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 19 April 2024.

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Insulating glass

1 Scope

This Japanese Industrial Standard specifies requirements for the insulating glasses mainly intended for use in buildings and freezing/refrigerating showcases. This Standard applies to insulating glasses with one or two hollow layers, and does not apply to those insulating glasses containing lattice members or other built-in elements in the hollow layer or those containing a mixture of gasses other than air sealed in the hollow layer.

A list of technically significant revisions from the previous edition with reasons is given in Annex A.

2 Normative references

Part or all of the provisions of the following standards, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS B 7502 *Micrometers*

JIS B 7512 *Steel tape measures*

JIS B 7516 *Metal rules*

JIS R 3106 *Testing method for transmittance, reflectance and emissivity of flat glass and calculation of total solar energy transmittance of glazing*

JIS R 3107 *Calculation of thermal transmittance of glazing*

JIS R 3202 *Float glass and polished plate glass*

JIS R 3203 *Patterned glass*

JIS R 3204 *Wired glass*

JIS R 3205 *Laminated glass*

JIS R 3206 *Tempered glass*

JIS R 3208 *Heat absorbing glass*

JIS R 3221 *Optical coated glass*

JIS R 3222 *Heat-strengthened glass*

JIS R 3223 *Tempered fire resistance glass*

JIS R 3224-1 *Glass in buildings — Insulating glass — Part 1: Durability of edge seals by climate tests*

JIS R 3224-3 *Glass in buildings — Insulating glass — Part 3: Gas concentration and gas leakage*