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## ASTM E2190 - 10 Standard Specification for Insulating Glass Unit Performance and Evaluation

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### Abbreviation

ASTM E2190 - 10

### Valid from

01/11/2010

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### Information provider

American Society of Testing and Materials

### Author

American Society of Testing and Materials

### Information type

ASTM Standard

### Format

PDF

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### Cited By

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### Description

This specification covers preassembled permanently sealed insulating glass units with one or two airspaces and preassembled insulating glass units with capillary tubes intentionally left open.

### Scope

This specification covers preassembled permanently sealed insulating glass units with one or two airspaces and preassembled insulating glass units with capillary tubes intentionally left open.

This specification is applicable only to sealed insulating glass units that are constructed with glass.

This specification is applicable to both double-glazed and triple-glazed insulating glass units; for triple-glazed insulating glass units where both of the outer lites are glass and inner lite is either glass or a suspended film.

The qualification of test specimens is based on frost/dew point and on the absence of fog after the specified test durations.

The qualification of argon gas filled test specimens is based on the qualifications in 1.3 and maintaining the specified argon gas amounts before and after testing to Test Method [E2188](#).

Qualification under this specification is intended to provide a basis for evaluating the durability of sealed insulating glass units.

This specification **is not applicable to** sealed insulating glass units containing a spandrel glass coating due to test method

limitations.

This specification **does not cover** other physical requirements such as appearance, thermophysical properties, heat and light transmission, and glass displacement.

**Note 1**—Sealed insulating glass units qualified according to this specification are not necessarily suitable for structurally glazed applications. Factors such as sealant longevity when exposed to long term ultraviolet light and the structural properties of the sealant must be reviewed for these applications. For more information on the requirements for structural sealant glazing applications, refer to Specification [C1369](#), Guide [C1249](#), and Test Method [C1265](#).

The values stated in SI units are to be regarded as standard. No other units of measurement are included in this standard.

This standard **does not purport to** address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

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- [NZS 4223.2:2016](#)

ASTM E2190 - 10 is cited by NZS 4223.2:2016 Glazing in buildings Part 2: Insulating glass units

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