

Tech Talk: Insulating Glass

Description

Insulating glass units consist of two lites of monolithic glass, one lite of monolithic/one laminated, or two lites of laminated glass on either side of sealed air space. Skylight glazing is typically construction with an outboard tempered or heat-strengthened lite of glass and an inboard laminated glass lite. The laminated glass lite provides overhead safety from falling glass if breakage should occur. Acoustical units may have one or both laminated glass lites for sound attenuation.

Spacer Types

A thermoset, silicone spacer with integral desiccant is used. According to Quanex, the supplier, this spacer provides a unique triple seal design which incorporates an inner acrylic adhesive seal for immediate unit handling, a polyisobutylene primary seal for enhanced gas retention and low moisture vapor transmission, and an outer silicone seal for proven structural strength and superior durability.

Performance Standards

Standard	Type
ASTM E2188-19	Standard Test Method for Insulating Glass Unit Performance
ASTM E2189-19	Standard Test Method for Testing Resistance to Fogging in Insulating Glass Units
ASTM E2190-19	Specification for Insulating Glass Unit Performance

Resources

For additional information on insulating glass, see the following references:

Fenestration & Glazing Industry Alliance

<https://www.aamanet.org>

Spacers

<https://www.quanex.com>