

Insulated Glass Units

Peerless believes it is critical that customers' orders are produced in a timely manner. When delivery schedules slip, project costs can escalate. As part of our vertical integration program, we have a 28,000-square-foot facility to house a computerized glass cutter. This CAM system, working with our existing automated glass insulating line, frees manufacturing from the sometimes unpredictable delivery schedules of suppliers. We maintain an inventory of many types and thicknesses of glass, including the most specified Low-E glass products. Our primary suppliers of annealed float glass are the two leading manufacturers in the industry. All glass purchased by Peerless meets ASTM 1036.

We manufacture our own insulated glass units and even offer gas filled technology. Bent spacers with splice connectors are used to join laser-welded anodized aluminum spacers which have been filled with a blended desiccant made up of silica gel and a 4-angstrom molecular sieve. This desiccant is used in the spacer on one long side and one short side of the glass. The molecular sieve, which also absorbs any moisture, is used because it absorbs practically no nitrogen from the air. This eliminates the possibility of glass deflection resulting from the slight negative internal pressure caused by nitrogen absorption.

At Peerless, glass is made into sealed units using state-of-the-art automated equipment utilizing a dual seal hot melt butyl system. The primary sealant is PIB (polyisobutylene). The second sealant is a "Dual Seal Equivalent" (DSE) material. The DSE sealant is an excellent vapor barrier with silicone-like structural characteristics.

As an added assurance beyond our usual rigid quality control checks on our insulating glass, Peerless submits samples every twelve months to an independent testing laboratory for severe thermal cycling. Our insulating glass units are tested per ASTM E 2190-02 as a pass/fail criteria and meet ASTM E 2190-02 standards.

Our insulating glass carries a standard 5-year warranty against seal failure. For additional Information on the details of this warranty, ask your local representative or contact us at:

<http://www.peerlessproducts.com>