

Insulated Glass Units

Insulated Glass Units (IGUs) or “windows” come in many forms, thicknesses and finishing types. AGNORA specializes in creating high-quality IGUs for residential, retail and commercial spaces using the newest technology and practices to achieve a higher level of durability, clarity and performance.





The largest in North America

AGNORA is able to produce IGUs up to 130" x 236" (3.3 x 6m) on its automated IGU line with argon gas, and up to 130" x 300" (3.3 x 7.6m) with standard dry air. Optionally, beyond 130" x 236" (3.3 x 6m) argon may be added manually. This immense capability allows the performance of double or triple glazed IGUs to be utilized in a wide array of high-end homes, retail, and commercial locations.

High Modulus Silicon

AGNORA's High Modulus silicone creates less stress on the PIB primary seal, which translates to longer argon retention.

To continue to add more value and life to the units produced at AGNORA, we use DOW High Modulus silicone (Dowsil 3363), available in black or grey colour configurations. This silicone provides greater tensile strength compared to the leading competitor, translating to 30% less joint movement, thus creating a more durable primary seal and reduced argon loss. In short, your windows are stronger and more resistant to seal failure.

The reason for using this more complex sealant? Because every step of our process is about a higher level of quality, leading to increased durability.

Scanning for Clarity

The use of SoftSolutions in-line scanner allows AGNORA to assess the overall quality of each individual piece of glass. The scanner captures detailed information regarding surface defects such as hair, dirt, grease, or scratches, but also analyzes the surface of heat-treated glass to ensure the level of anisotropy or "leopard spotting" is agreeable. All-in-all this technology ensures that the glass you receive is absolutely the best quality and clarity, no exceptions.

Specification

Overall Thickness
 Configuration
 Maximum thickness for middle lite
 Minimum Dimension
 Maximum Dimensions with gas
 Maximum Weight
 Linear Maximum Weight
 Steps
 Gas
 Sealant
 Spacer

Metric Measurement

12mm to 90mm
 Double or triple insulated
 6mm
 350mm x 180mm
 6000mm x 3500mm
 2500kg
 200kg/m
 Side 1 – 85mm
 Side 2, 3, 4 – No size limit
 Argon available for all units
 Momentive silicone IGS-3723 blk or gry
 All spacers are bent, no corner key
 Aluminum natural
 Aluminum black
 Stainless steel natural
 Stainless steel black

Imperial Measurement

1/2" to 3-1/2"

 1/4"
 14" x 7"
 236" x 150"
 5500Lbs
 134Lbs/ft

 8, 10, 12, 15, 16, 18, 20mm
 8, 10, 12, 15, 16, 18, 20mm
 10, 12, 15, 18mm
 10, 12, 15, 18mm

Performance Coatings in Stock

AGNORA carries an extensive inventory of glass with varying levels of performance coatings that work in tandem with your project requirements. The following are examples of our top five (5) requested performance coatings and their maximum available sizes.

- Saint Gobain | Xtreme 70/33 II Diamant
- Cardinal | Q272
- Pilkington | Energy Advantage
- Saint Gobain | SKN 076 II Diamant
- Saint Gobain | Xtreme 60/28 II

Find out more in this in-depth analysis by Louis Moreau, Head of Innovation and Technology at AGNORA.

