

Glass is integral to the beauty of any window. This phase of the manufacturing process is as important as any other. To be certain the glass meets our strict quality standards, we insulate our own glass in-house giving us absolute control over clarity, sealing, and alignment. The majority of our dual-sealed insulating units are NFRC certified.

## Clarity

Our standard glass is clear, 1/8" chosen for its optimum clarity. We purchase glass in large sheets, then cut to size, enabling us to avoid the imperfections.

## Seal Quality

The seal of any insulating unit is what gives a unit its life expectancy, and Quantum's glass technicians follow rigid standards for seal quality.

Each piece of glass is inspected by hand and eye to be certain the glass is clean and free of foreign matter. The two glass units are sealed with two sealants engineered to work together to ensure a superior seal.

## Sizes

Specific glass types are chosen dependent on the size required.

Under 21 sq. ft.	Double-strength 1/8"
21 - 45 sq. ft.	Crystal 3/16"
Over 45 sq. ft.	1/4"

Size limits may decrease dependent on high wind exposures.

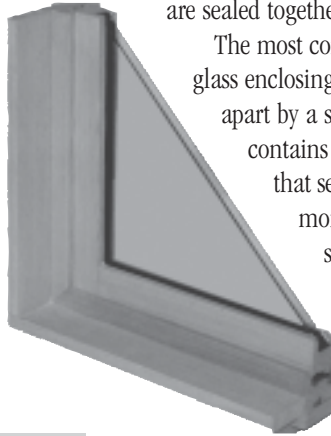
## Installation

The insulated unit is set in a layer of caulk that tightly seals the glass to the frame. Removable stops are applied to the exterior and permit easy maintenance from the exterior, never the interior.

## Warm Edge Technology

In order to reduce heat gain or loss through glass, two or more lites are sealed together to create an insulating glass unit (IGU).

The most common insulating glass units consist of two lites of glass enclosing a hermetically sealed air space. The lites are held apart by a spacer around the entire perimeter. The spacer contains a moisture-absorbent material called a desiccant that serves to keep the enclosed air free of visible moisture. The entire perimeter of the assembly is sealed.



Quantum IGU'S are manufactured using Super Spacer® by Edgetech I.G., Inc. Super Spacer® is one of the highest performing spacers on the market. This spacer system technology plays an important role in the improvement of insulating glass U-values and in the overall

window performance requirements for state-adopted energy codes. Thermal performance is further increased when Warm Edge is used in conjunction with solar control glass such as Low-E and insulating argon gas.

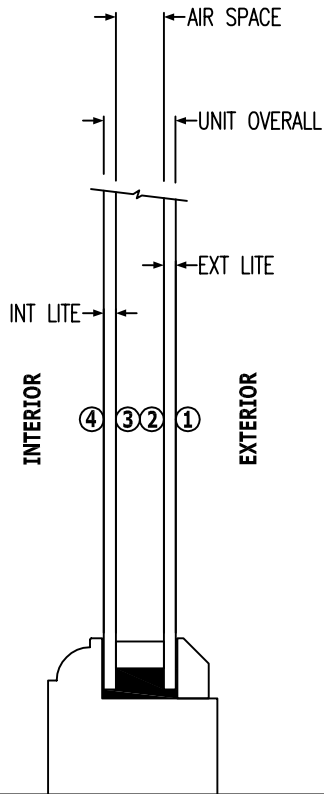
## Options

Each project requires certain specifications whether for safety or aesthetics, and Quantum's glass options are many:

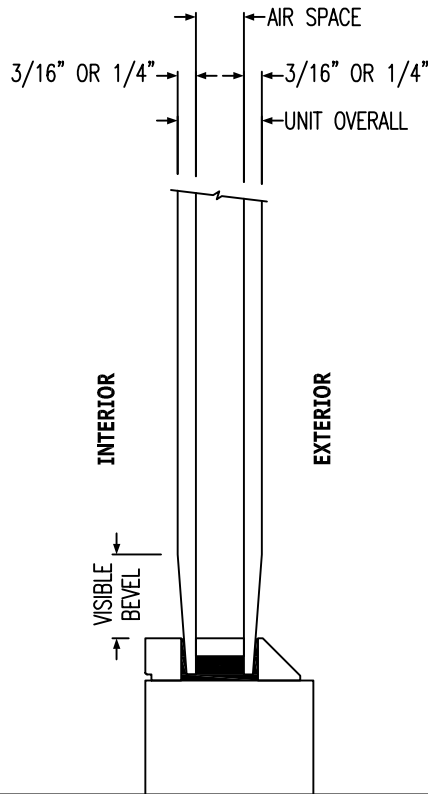
Applied Lead	Low-E	Single Glazing
Argon-filled	Obscure	Sound Control
Art Glass	Safety	Tempered
Heat Mirror®	Sandblasted	Tinted
Laminated		Others

**GLASS OPTIONS**

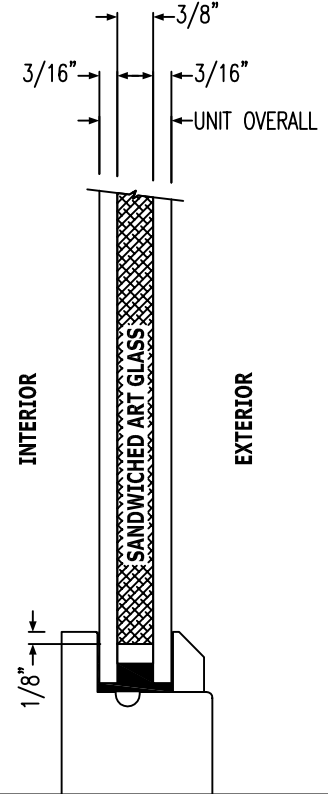
**GLASS UNIT SURFACES**



**BEVELED GLASS**



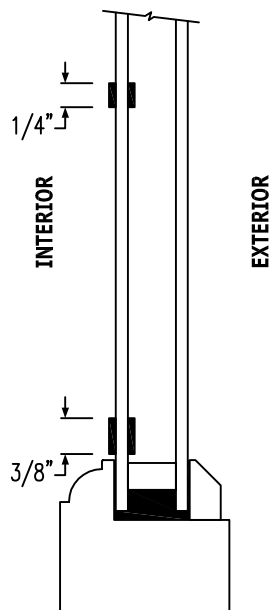
**SANDWICHED ART GLASS**



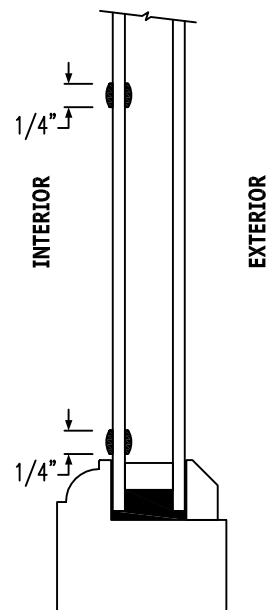
**APPLIED LEAD OPTIONS**

- PATINA OR NO PATINA
- FLAT OR OVAL
- $1/4"$  OR  $3/8"$
- LARGER LEADING AVAILABLE  
(LEADING ALWAYS ON INTERIOR LITE)

**APPLIED LEAD (FLAT)**



**APPLIED LEAD (OVAL)**





Contact your Quantum Representative for U-Values  
on specific product of interest