

# ProSeal™

INSULATED GLASS

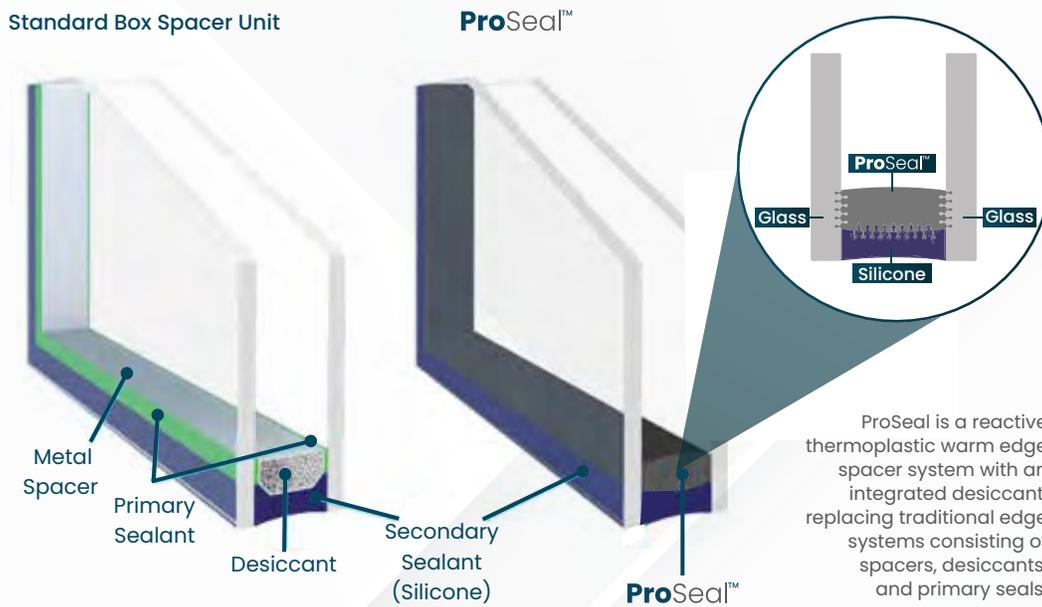
Highly Durable  
Longer Lasting  
Energy-Efficient



## Next Generation of Insulated Glass Spacers

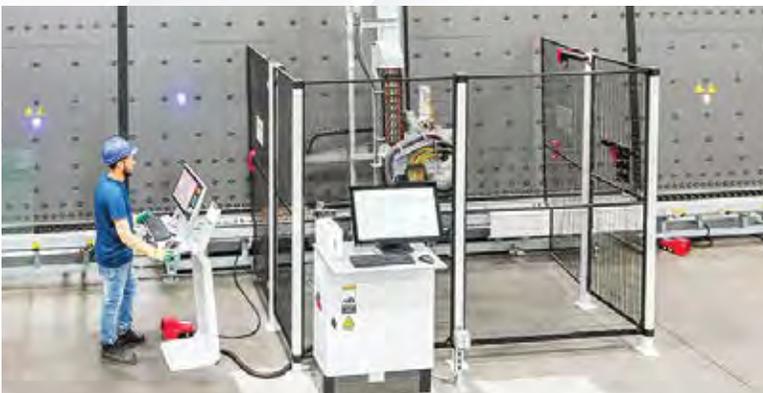
Our new ProSeal Insulated Glass provides the longest-lasting seal of any spacer and is backed by the industry's only 15-year product warranty.

ProSeal represents a significant advancement in glass spacer technology, offering both physical bonding and chemical adhesion to glass lites, making it ideal for building facades where glass serves as a key aesthetic and structural component. This new formulation also enhances its strength, extending the seal's life and enabling it to withstand a broader range of tough climate conditions commonly found in demanding glass projects.



ProSeal offers greater longevity than other spacers. Unlike traditional spacers, ProSeal is nearly invisible within your window system, as it reflects the frame color on the spacer. It maintains parallel alignment in complex insulated glass units, curved shapes, and oversized units. Its ability to form a chemical bond with both glass and silicone helps reduce energy consumption for heating and cooling, thereby lowering building operating costs.

ProSeal Insulated Glass units are transforming the industry with an industry-leading 15-year product warranty, ensuring long-lasting performance, energy efficiency, and peace of mind.



## The Precision Identification Number (PIN)

Every ProSeal product includes a Precision Identification Number, called a PIN, which is inkjet-printed directly onto our thermal spacer. This PIN ensures that each insulating glass unit (IGU) has a traceable record of its exact specifications. As a result, building owners, architects, and contractors can quickly and accurately reorder glass without making assumptions or incurring costly investigations.



The Precision Identification Number (PIN)

## ProSeal™ Features

- **15-year product warranty**
- Almost invisible spacer (Reflects the frame color & spacer color irrelevant)
- Durability to last
- Maximum Size: 106" X 196"
- Dynamically adjustable spacer thickness from 1/4"- 3/4" to achieve overall thickness required despite variances in glass thickness
- Highly adjustable sightline from 3/8" and up
- Warm edge performance
- Excellent gas retention
- Longer and superior insulating performance
- Adaptation to frame color
- Higher temperature stability (194° F) than standard insulated glass with PIB



## Performance Comparison

	ProSeal™	Foam Spacer	Hybrid Spacer	Stainless Steel
Gas Retention	●●●	●	●●	●●
Thermal Conductivity	●●●	●●●	●●●	●
Flexibility	●●●	●●	●	●
Robotically Applied	●●●	●●●	—	—
Aesthetics	●●●	●●	●	●
Durability	●●●	●●	●●	●●
Chemically Bonded to Glass	●●●	—	—	—
Higher Temperature Stability	●●●	—	—	—
Automated Thickness Application	●●●	—	—	—

● Acceptable ●● Better ●●● Best

## Certifications

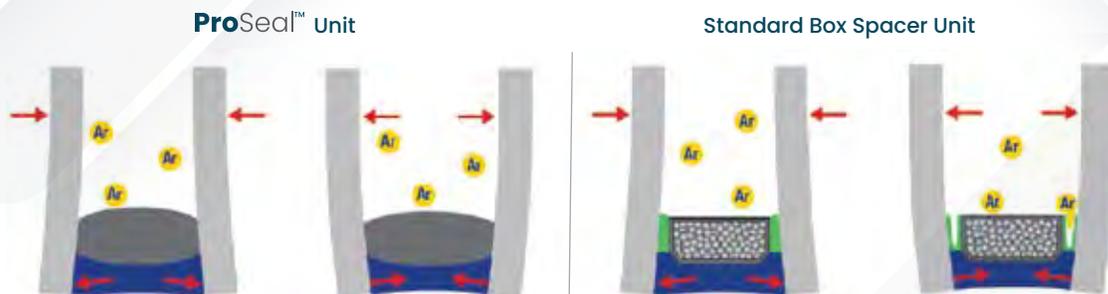
CGSB-12.8
ASTM E2190
CEKAL
EN 1279



## Seal Quality & Durability Comparison

PROGRESSIVE WEATHERING (EN1279-3)

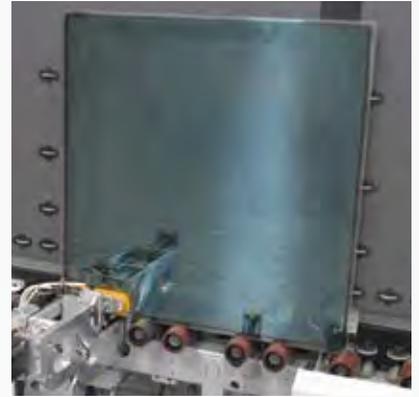
	Initial Argon Content	Round 1	Round 2	Round 3	Round 4	Round 5	Round 6	Round 7	Round 8	Round 9	Round 10
Aluminum Spacer	93	93	92	92	91	89	Frost Point Failure	—	—	—	—
Hybrid Spacer #1	92	92	91	90	89	86	Frost Point Failure	—	—	—	—
Hybrid Spacer #2	91	90	90	90	86	Frost Point Failure	—	—	—	—	—
Foam Spacer	95	93	85	Frost Point Failure	—	—	—	—	—	—	—
<b>ProSeal™</b>	<b>99</b>	<b>98</b>	<b>98</b>	<b>97</b>	<b>96</b>	<b>96</b>	<b>95</b>	<b>94</b>	<b>94</b>	<b>93</b>	<b>92</b>



ProSeal remains gas-tight during unit expansion and compression cycles. Stress is evenly distributed across the spacer width, enhancing the retention of argon and energy efficiency.

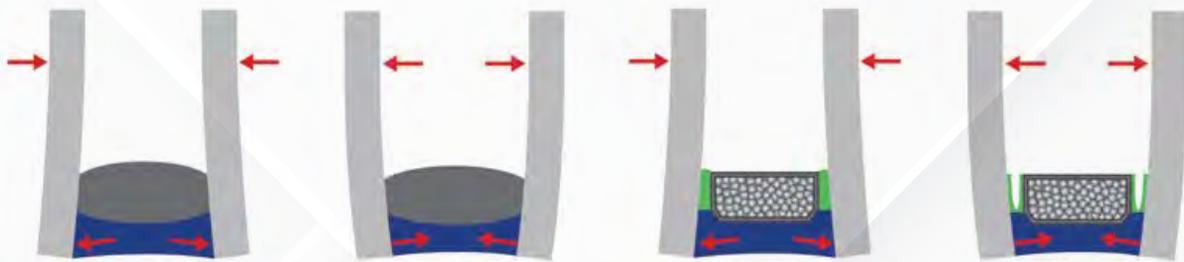
## Superior Gas Retention

Among the various spacer materials available, ProSeal stands out as an excellent choice. It not only provides a warm-edge solution but also demonstrates exceptional gas retention capabilities. Even after multiple rounds of weathering tests, a ProSeal unit maintains an argon content consistently above 90%, outperforming all other tested spacer systems. This exceptional gas retention minimizes heat loss and reduces energy demands over time. This unique feature results in prolonged energy efficiency, making ProSeal a compelling choice for construction projects that prioritize long-term sustainability.

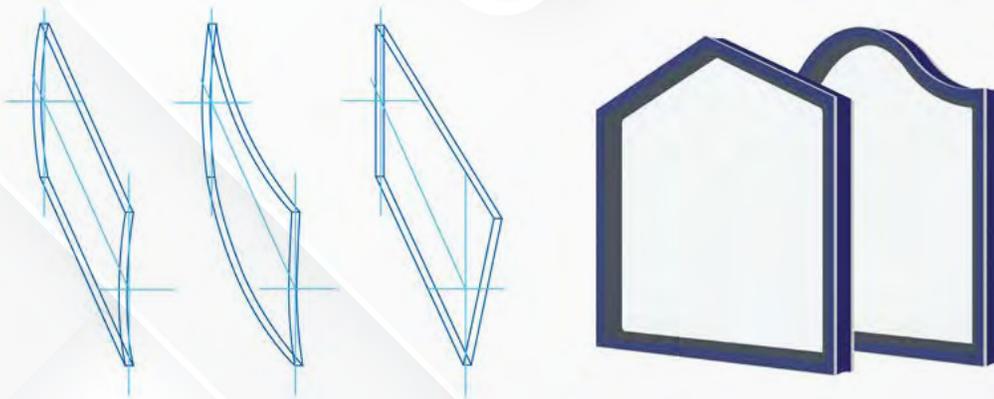


## ProSeal Warm Edge Reactive Thermoplastic Spacer

The warm edge system provides unlimited shapes and designs for insulating glass units (IGUs), exceptional thermal performance, optimal gas tightness, and low moisture vapor transmission rate (MVTR). As a permanently flexible spacer, its high elasticity and chemical bonding contribute to improved mechanical performance during environmental changes.



ProSeal maintains gas-tightness throughout the unit's expansion and compression cycles. The stress is evenly distributed across the entire width of the spacer, rather than being concentrated only at the edges. This helps to ensure gas-tightness and improve energy efficiency.



ProSeal supports various shapes, large units, and cold-bent units for exceptional design flexibility.

## ProSeal IGU Frost Point Depression after Fabrication

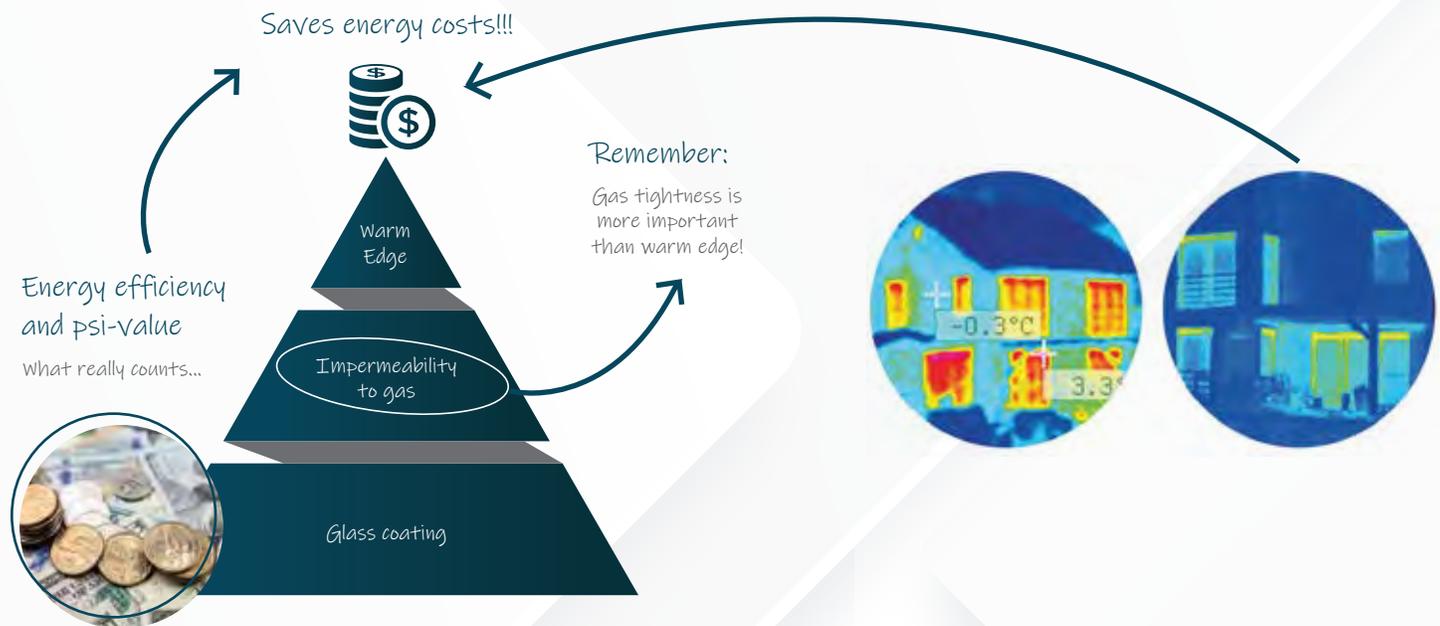
The speed at which insulating glass units (IGUs) fabricated using ProSeal achieve low frost points after the fabrication process and the factors that influence this behavior.

## Energy Efficiency for a Better Planet

We are committed to fabricating energy-efficient solutions that contribute to a cleaner, more sustainable world. ProSeal's double or triple insulated glass maximizes thermal insulation, significantly reducing the demand for heating and cooling. This lowers energy use and cuts greenhouse gas emissions—making ProSeal a smart, eco-conscious choice for building a better planet.

## Visible Thermal Insulation

Standard windows compared to insulating glass windows with ProSeal.



## Benefits of Climate Protection and Living Comfort

ProSeal is distinctive due to its unique chemical reaction with the other components within the insulating glass unit. It chemically bonds the materials at the edges of the panes, creating an elastic unit. This fusion at the edge of your windowpanes guarantees complete gas-tightness and long-lasting energy efficiency. As a result, the thermal insulation of your windows remains effective throughout their lifespan. Consequently, you benefit from a high-quality energy efficient system, while enhancing your living comfort.

## Our ProSeal Commitment

Our ProSeal Commitment focuses on delivering high-quality insulated glass solutions for maximum lifespan and energy efficiency. This significantly cuts energy costs and aids global climate protection. Its unique design enhances aesthetics while providing superior comfort in any living space.



## Delivering Proven Results

Here are some examples of our projects, delivering precision-fabricated commercial glass solutions on time and to specification.



# PRECISION

GLASS INDUSTRIES

DEDICATION UNMATCHED



[precisionglassindustries.com](https://precisionglassindustries.com)