



*Super Spacer®*

BEFORE YOU  
CHOOSE YOUR  
WINDOWS...

Make sure they can  
weather the elements.

ALL SPACER SYSTEMS ARE NOT CREATED EQUAL.

**Think about** what windows go through. They have to face extreme temperature changes all year. Plus, they're bombarded with UV rays, barometric pressure changes and nasty winds.

**FOAM  
The Ultimate Edge**

Luckily, there's a simple way to give your windows an advantage in reducing energy costs, ensuring durability and adding comfort and value to your home. It's foam — a unique formula we call Super Spacer. The all-foam formula in Super Spacer used to separate the panes of glass in your windows conducts less heat than conventional metal spacers at the edge of the glass.

**TSS Technology**

Super Spacer products are manufactured with Thermoset Spacer (TSS®) Technology. Thermoset polymers are materials with crosslinks that become permanently set during the curing process. They have 100% memory, meaning they cannot be reshaped through reheating. Window spacing systems manufactured with TSS polymers and acrylic adhesives provide superior structural integrity.

**Metal can't bounce back**

the way Super Spacer can. Thanks to our Thermoset Spacer (TSS) technology, the spacer will expand and contract, but it will always return to its original shape. Rigid metal and plastic spacers cannot compensate for the natural expansion and contraction that occurs daily in insulating glass.

**The Foam Advantage**

Conduction is the movement of heat through a solid material. Touch a skillet and you feel heat conducted from the stove through the pan.



Heat flows through a window much the same way. Our all-foam formula blocks the heat path

and provides one of the best thermal performances in the industry. This means it keeps the heat out, so you stay cool and comfortable inside.



**Worldwide Standards**

Super Spacer has been tested and has met the following global standards:

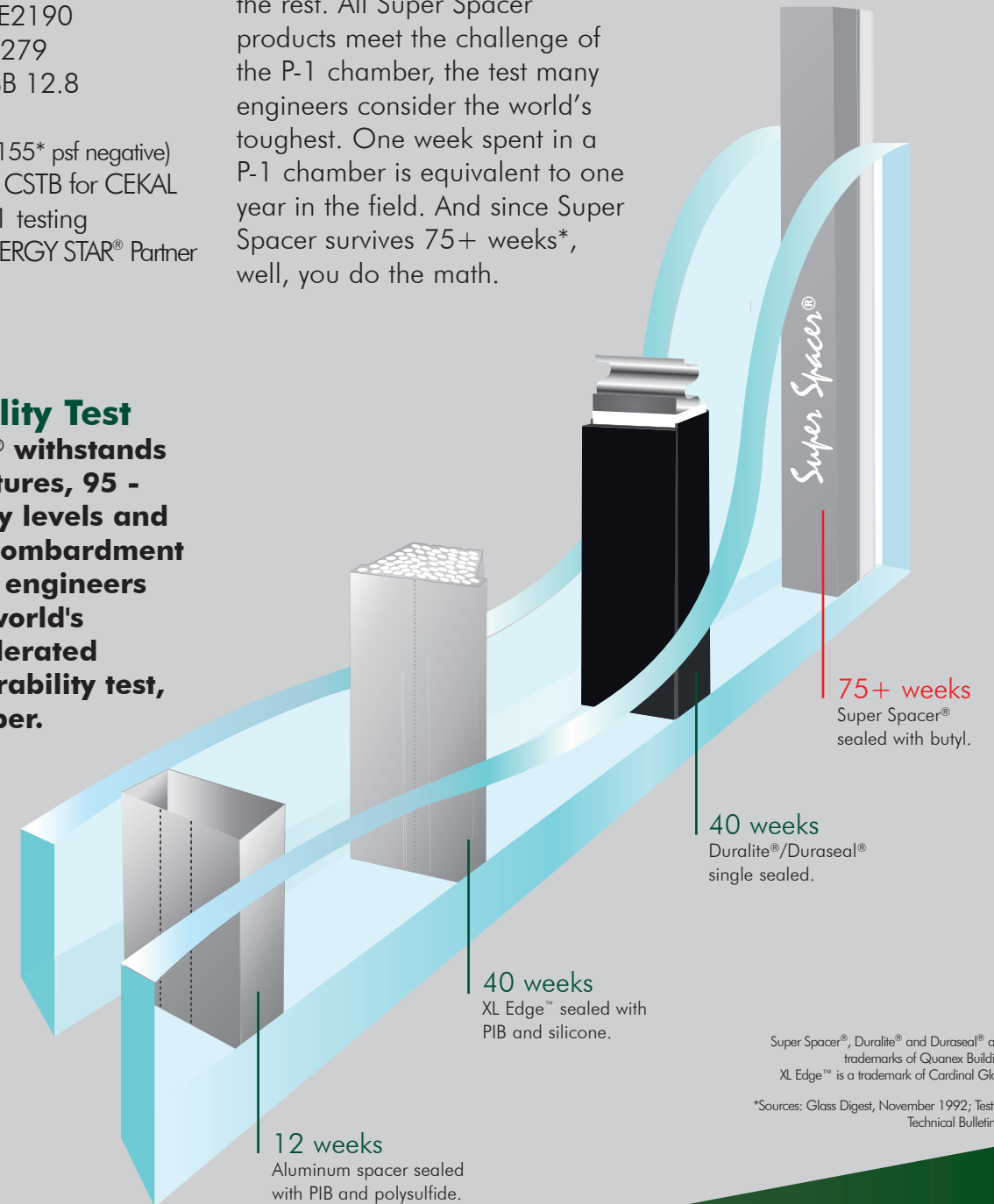
- **Dade County Hurricane Test**
- North America ASTM E2188/E2189/E2190
- European EN 1279
- Canadian CGSB 12.8
- ASTM E330 (120\* psf positive, 155\* psf negative)
- French Standard CSTB for CEKAL
- Industry type P-1 testing
- Quanex is an ENERGY STAR® Partner

**The Durability Test**

**Super Spacer® withstands 140° temperatures, 95 - 100% humidity levels and constant UV bombardment in what many engineers consider the world's toughest accelerated aging and durability test, the P-1 chamber.**

**Windows subjected to 100% humidity, constant UV bombardment and 140°F are a fact of life in the South.**

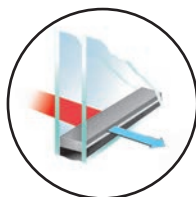
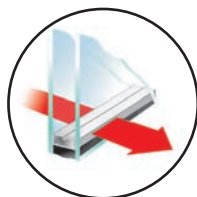
**If only the strong survive,** then we'll outlast all the rest. All Super Spacer products meet the challenge of the P-1 chamber, the test many engineers consider the world's toughest. One week spent in a P-1 chamber is equivalent to one year in the field. And since Super Spacer survives 75+ weeks\*, well, you do the math.



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\*Sources: Glass Digest, November 1992; Test RLS08006B Technical Bulletin W13006.0

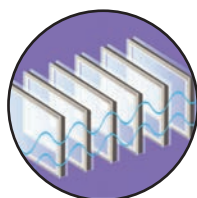
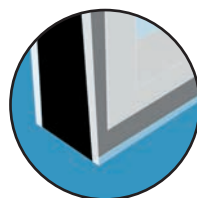
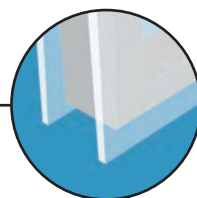
WILL YOUR WINDOWS SURVIVE?

# SUPER SPACER...FOR SO MANY REASONS.



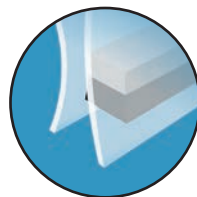
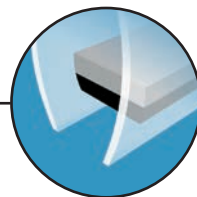
The all-foam formula of Super Spacer<sup>®</sup> blocks the heat path, so homes stay cool and comfortable inside.

Our dual seal system helps Super Spacer insulating glass units last up to nine times longer\* in durability tests than single-seal units.



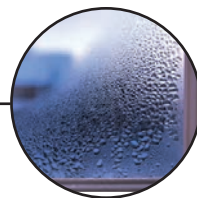
Super Spacer units withstand the 140°F/60°C temperatures, 95 - 100% humidity and constant UV bombardment in the world's toughest durability test - The P-1 chamber.

Our all-foam formula offsets the effects of temperature changes, barometric pressure, wind load and glazing pressure. The end result is less seal failure and fewer stress cracks.



With improved sound absorption over traditional metal spacers, NO-Metal Super Spacer is a huge help in keeping the decibels down.

Condensation can lead to more than bacteria and molds. It can increase the likelihood of fungi, viruses and mites that cause respiratory infections, allergies and asthma.



For the most energy efficient and durable windows that give you the added benefits of improved sound absorption and less chance of condensation, choose IG made with Super Spacer<sup>®</sup> all-foam insulating glass spacer.



LEARN MORE AT [energystar.gov](http://energystar.gov)

Super Spacer<sup>®</sup>  
www.superspacer.com

Quanex  
building products

\*Source: Glass Digest, November 1992; Test RLS08006B  
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