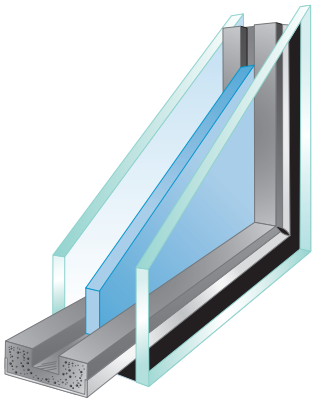
Quanex
building products

Insulating Glass Systems

Super Spacer® Cushion Edge™ Enhanced

Super Spacer® Cushion Edge™ is a flexible, U-shaped, silicone foam spacer used to manufacture triple insulating glass units. Desiccant-filled with both a preapplied side and channel adhesive, the structural foam spacer significantly simplifies triple glazed unit production.



Basic Use

Super Spacer is a dual seal insulating glass spacer system that uses a high-performance acrylic adhesive for its structural seal and is backed with a proprietary multi-layer moisture vapor seal.

Featuring a vapor barrier backing, the spacer must be used in combination with conventional IG sealants. For a list of verified sealants, please reference IG sealants Technical Bulletin RDQ0018, which is available on our website at www.quanex.com in the technical section.

Colors

Super Spacer Cushion Edge is available in Black, Aluminum, Grey and Almond.

10,000' minimum ± 10%.

Composition

Silicone foam base with desiccant pre-fill.

Desiccant Fill

3A molecular-sieve; 47% minimum by weight.

Continuous Packaged Length

For regular insulating-glass production, Super Spacer Cushion Edge is supplied on reels with the continuous packaged length varying depending on the spacer width.

Protective Packaging

To provide desiccant protection, the reels are vacuum-sealed in moisture-proof foil bags. The reels are then shipped in recyclable cardboard boxes.

Performance	Norm
Thermal conductivity 0.102 W/m°K	ASTM C 518
Gas / Moisture vapor barrier WVTR < 0.020 gm/m^2/day Oxygen < 0.009 cc/m^2/day	ASTM F 1249 ASTM D 3985
Primary structural seal Acrylic adhesive	
Intermittent temperature range -40°C to 121°C / -40°F to 250°F	—
Verified secondary sealants Reference IG sealants Technical Bulletin RDQ0018	—
Fogging No fog in visual area.	ASTM E 2190 EN 1279 - 6 CAN/CGSB 12.8
Gas Retention	—
I.G. Durability	ASTM E 2190 P1 - 15 weeks

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Warm-Edge Silicone Foam Features & Benefits

- Superior silicone foam insulation
- Low thermal conductivity
- Substantially reduced perimeter condensation
- Typical overall 0.2 W/m²K (0.04 BTU/h-ft²-°F) U-value window improvement (vs. aluminum)
- Excellent UV resistance
- Extreme temperature performance
- Fast dew-point drop
- Superior compression-set resistance
- Excellent color stability
- Enhanced sound dampening

Edge-Seal Durability

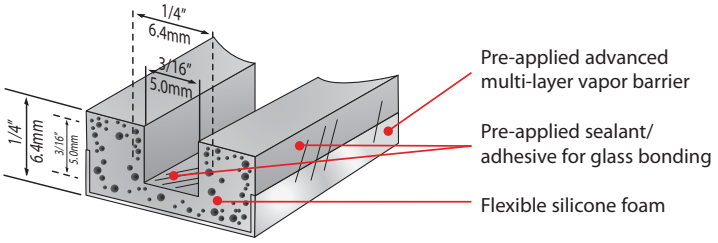
- Continuous vapor barrier at corners
- No chemical fogging
- High desiccant content
- Same spacer material and edge-seal technology as the proven Premium Plus product

Unique Dual-Seal Design

- Outer hot-melt butyl sealant for enhanced gas retention
- Inner structural acrylic side adhesive
- Immediate unit handling
- No cold flow or spacer/seal migration problems

Pleasing Aesthetic Appearance

- Black, Aluminum, Grey or Almond colors
- Smooth matte surface finish
- No surface blistering or bubbling
- Straight-line application



Reel Sizes

Width mm	Width inches	Meter/ Reel 1/4" height	Feet/ Reel 1/4" height	Meter/ Reel 3/16" height	Feet/ Reel 3/16" height
12.7 mm	0.500"	213	700	244	800
14.3 mm	0.563"	190	625		
15.9 mm	0.625"	175	575	206	675
17.5 mm	0.688"			183	600
19.1 mm	0.750"	152	500	175	575
20.6 mm	0.813"	122	400	152	500

Note: Tolerances for each nominal size are +/- 3% for the width (airspace) and +/- 6% for the height (thickness).
Note: All metric dimension equivalent sizes are for reference only.

Quanex warm-edge IG spacer systems are used by our customers to assemble ENERGY STAR® qualified windows and doors.

ISO 9001:2008 with design Certificate Registration 08.185.1

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