

Super Spacer[®]

Super Spacer[®] is a flexible, silicone foam spacer technology by Edgetech UK.

Super Spacer provides excellent perimeter insulation for sealed glazing units. Desiccant-filled with pre-applied side adhesive, the structural foam product significantly simplifies insulating glass (IG) production.

Super Spacer Proven Performance

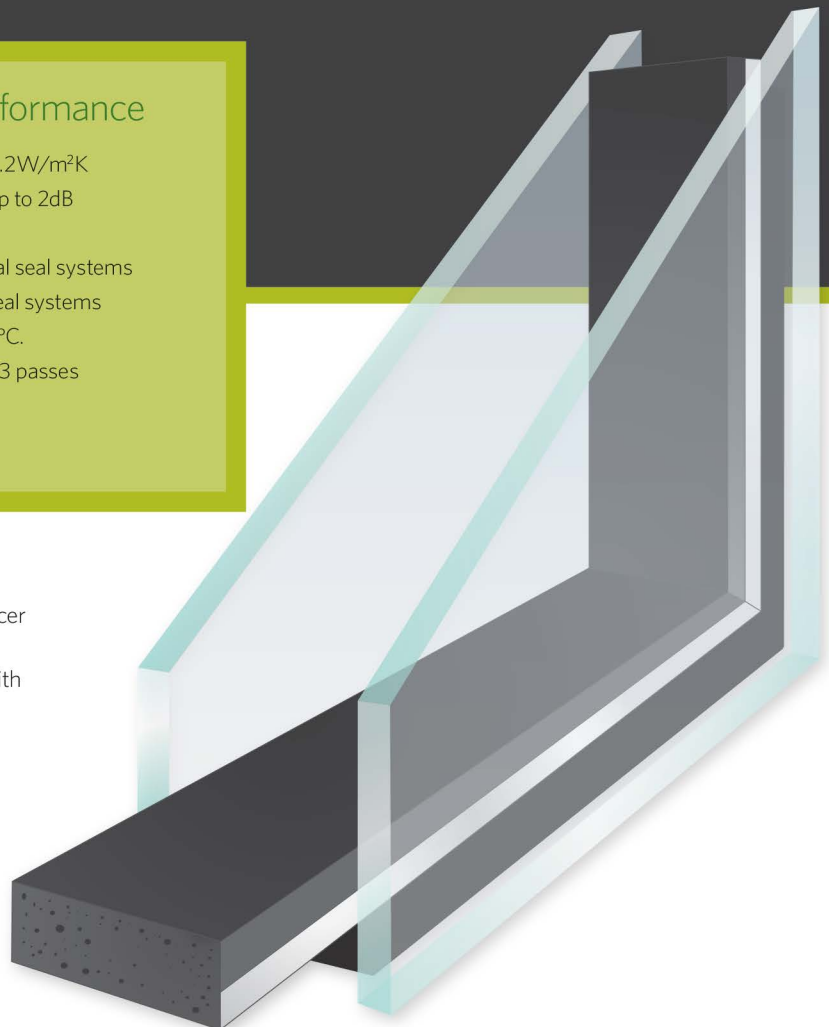
- Reduces window U-values by up to 0.2W/m²K
- Reduces external noise pollution by up to 2dB
- Reduces condensation by up to 70%
- Typically lasts over 2x longer than dual seal systems
- Typically lasts 5x longer than single seal systems
- Successfully tested from -40°C to 121°C.
- More than 100 EN1279 Part 2 & Part 3 passes
- ISO 9001 accredited
- 40-year performance guarantee

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 vapour seal.

Compatible with:



Hot Melt Butyl
Secondary Sealant



APPLICATION OPTIONS

Achieve production of up to 800 sealed units per shift.

With its non-metal, flexible all-foam construction, creating insulating glass units with Super Spacer is simpler, faster and more streamlined.

Super Spacer doesn't need to be cut into bar length form; it doesn't need to have a PIB primary seal applied and it doesn't need to be filled with desiccant. This removes a significant amount of labour from the manufacturing process.

We offer three entry levels for Super Spacer production with proven equipment choices selected from several leading manufacturers. Whatever your production levels and budget, we'll have a Super Spacer solution to suit.

Up to 250 units: **Manual**

Our manual system, SuperShop, will allow a three-man team to produce up to 250 units per eight hour shift, including manual glass wash, manual spacer application and manual perimeter sealing.

The SuperShop sealed unit production line comprises an air-floatation table, Super Spacer reel feed, application shuttle and matching table for accurate Georgian and SDL bar placement. Super Spacer can be applied in under one minute per sealed unit using SuperShop lines.

Up to 400 units: **Semi-automatic**

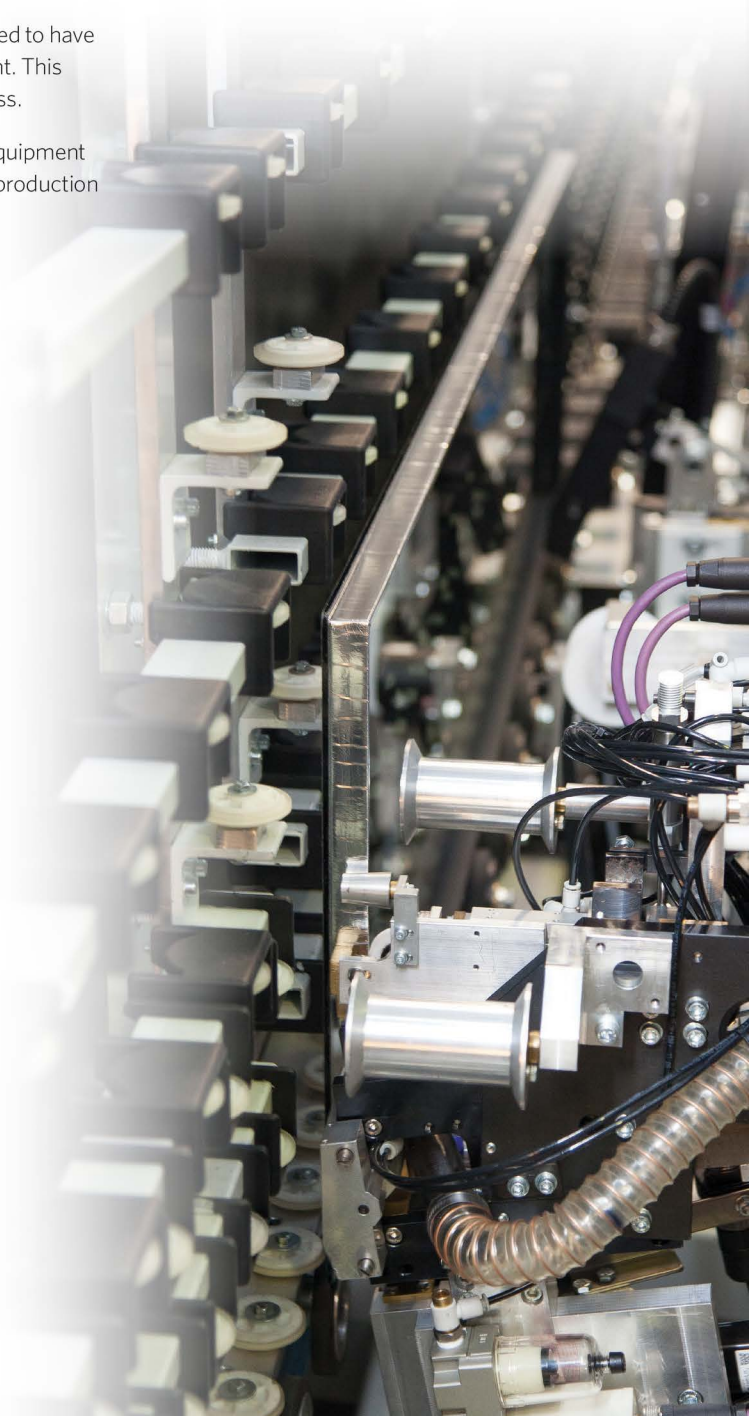
The semi-automated system allows the same three-man team to produce up to 400 units per eight hour shift, again including automated glass wash, manual (shuttle) spacer application and manual or automated perimeter sealing.

Up to 800 units: **Fully automated**

A fully automated system allows a two or three man team to produce up to 800 units per eight hour shift including glass wash, automated robot spacer application, automated gas filling and automated perimeter sealing.

Automated Super Spacer applicators accurately produce shaped and angled units on line without slowing down the production cycle, saving time and cost.

Automated Georgian bar and divided light grid placement can also be managed on line, cutting production time by up to 30% compared to traditional fixing methods.





Edge Clip Options

IntelliClip Flexible Edge Clips

We have IntelliClip Flexible Edge Clips to suit most types of inter bar with features to customise to individual IG unit requirements with a variety of forms, finishes and spacer offsets to fit a variety of spacer widths.

IntelliClip options are designed around a range of securing and attachment options; for auto pre-notched or high integrity trapped tab and barbed tips. Angled bars are also catered for with swivel ended clips and connectors.



IntelliClip Georgian Edge Clips

IntelliClip Georgian Edge Clips are designed specifically for automated Super Spacer IG Production lines, the IntelliClip system is software driven - removing any possibility for operator error when installing grids.

The combination of the IntelliClip product features and the robotic spacer notching system assures that grid placement will be accurate with respect to both the spacer frame and the glass, removing any worry of grids being twisted or out of line.



IntelliClip SDL Back to Back Clips

IntelliClip SDL Back to Back Clips are designed for both manual and automated Super Spacer IG Production lines. The SDL solution is provided by a series of specially designed edge keys that enable the use of a 'back to back' rigid box spacer to create an impression of separate glass panes when used with surface applied astragal bars.

Manual SDL clips features also ensure that squareness, security and accurate placement can be achieved to remove the worry of grids being twisted regardless of application method.



Super Spacer®

Warm-Edge Organic Foam Features & Benefits

- Superior organic 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. aluminium)
- Very good UV resistance
- Excellent high/low temperature performance
- Very good dew-point drop
- Very good compression-set resistance

Edge-Seal Durability

- Continuous vapour barrier
- No chemical fogging
- High desiccant capacity

Reverse 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

Improved Productivity

- Fast application
- Elimination of desiccant filling
- No corner key assembly
- Simplified production of shaped units
- Limited equipment investment
- High-volume production with reduced labour force

Pleasing Aesthetic Appearance

- Available in grey, white and black
- Smooth matte surface finish
- No surface blistering or bubbling
- Straight-line application with sharp 90° corners

	Performance	Norm
Thermal conductivity	0.15 W/mK	EN 10077:2 WA 17/1
Gas / Moisture vapour barrier	WVTR < 0.020 gm/m ² /day Oxygen < 0.009 cc/m ² /day	ASTM F 1249 ASTM D 3985
Intermittent temperature range	-40°C to 121°C	N/A
Verified secondary sealants	Reference IG sealants Technical Bulletin RD0018	N/A
Fogging	No fog in visual area Pass with hot-melt butyl or curative butyl	ASTM E 2190 EN 1279 - 6 CAN/CGSB 12.8
Gas Retention		EN 1279 - 3
I.G. Durability		ASTM E 2190 EN 1279 - 2

Spacer Cross-section

Flexible silicone foam

Pressure-sensitive acrylic adhesive

Multi-layer vapour barrier

Reel Sizes

Width (mm)	Metre / Reel	Metre / Auto Reel
4.0 mm	205	N/A
6.0 mm	520	1500
8.0 mm	395	1180
10.0 mm	320	950
12.0 mm	260	790
14.0 mm	225	675
16.0 mm	205	615
18.0 mm	185	555
Black 20.0 mm	180	474
Grey 20.0 mm	160	474

Note: Tolerances for each nominal size are +/- 4% for the width (airspace) and +/- 8% for the height (thickness).

Data is correct at time of going to print but is subject to change as further testing is undertaken.

Colours

Super Spacer is available in grey, white and black.

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 Standard is supplied on reels with the continuous packaged length varying depending on the spacer width.

Protective Packaging

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