

Warm Edge Spacer Guide

Swisspacer, Super Spacer, Thermix, TGI vs standard aluminium

What a Spacer Bar Actually Does

The spacer bar is the perimeter frame that holds the panes of a sealed unit apart at a fixed distance, forming the insulating cavity. It sets the cavity width, carries the desiccant that keeps the sealed airspace free of moisture, and forms the base for the primary and secondary seals that keep the unit airtight. Because it sits at the very edge of the glass, in direct contact with both panes, its material has a disproportionate effect on how the unit performs thermally.

Warm Edge vs Aluminium

Traditional aluminium spacers have a thermal conductivity of 160 W/mK, creating a continuous cold bridge around the entire edge of every pane. Warm edge spacers replace that aluminium with a composite polymer, silicone foam or stainless-plus-polymer construction with conductivity as low as 0.17-0.19 W/mK — roughly 99% lower than aluminium.

Spacer	Material	Conduct. (W/mK)	Psi value	Edge Temp vs Alu.
Aluminium	Aluminium alloy	160.0	0.080	Baseline (cold)
Swisspacer Ultimate ★	Composite polymer	0.19	0.030	+3-4°C warmer
Super Spacer TriSeal ★	Silicone foam	0.17	0.028	+3-4°C warmer
Thermix TX.N Plus	Stainless + plastic	0.60	0.040	+2-3°C warmer
TGI Spacer	Stainless + polymer	0.90	0.050	+1-2°C warmer

Whole-Window Impact

Spacer	Uw (whole window)	Improvement vs Alu
Aluminium	1.4 W/m²K	Baseline
TGI	1.35 W/m²K	3-4%
Thermix TX.N	1.30 W/m²K	7%
Swisspacer Ultimate	1.20 W/m²K	14%
Super Spacer	1.18 W/m²K	16%

CSU Recommendation

Swisspacer Ultimate or Super Spacer TriSeal for all projects. The marginal extra cost is typically recovered within one to two heating seasons through energy savings, and it eliminates edge condensation and the callbacks that come with it.

How to Order

Contact our sales team: 020 8574 9342 | 07305 993794 | sales@csultd.co.uk | csultd.co.uk — quotes returned within 2 business hours (Mon-Fri, 8am-5pm).