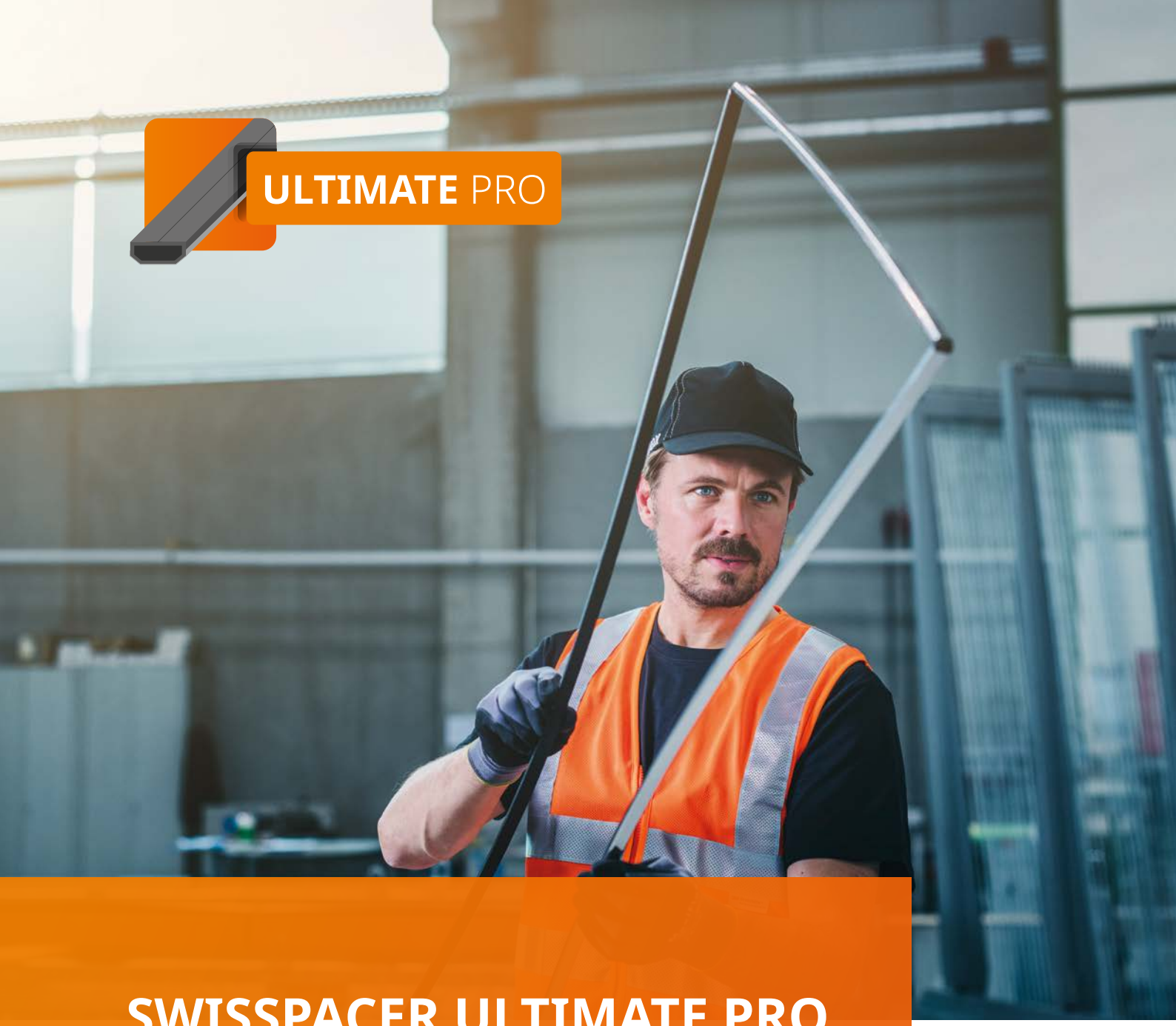


SWISSPACER ULTIMATE PRO

The proven Swiss warm edge with extra “flex”

SWISSPACER

The edge of tomorrow.

ULTIMATE PRO

With its outstanding thermal performance, the ULTIMATE PRO spacer bar is one of the best warm edge products on the market. The optimally coordinated design of material, geometry, perforation and film also delivers maximum certainty about the functionality of the insulating glass units, in particular as regards the lifespan. These advantages make ULTIMATE PRO the first choice, especially for large-format insulating glass units.

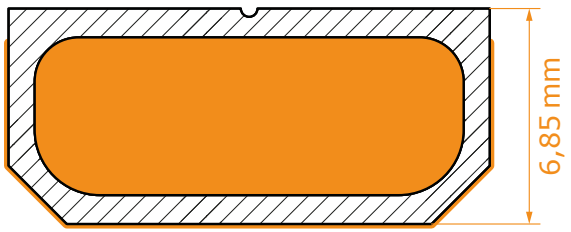
Thanks to the sophisticated material composition of ABS and glass fibres, ULTIMATE PRO has a high degree of elasticity with special advantages for processing – and at the same time ensures the required stability for the spacer bar frame. ULTIMATE PRO can be processed particularly efficiently, the stable, robust frame also easily withstands dynamic loads, e.g. during internal transport. This also enables the further optimisation of cycle times and minimises waste in the production process.

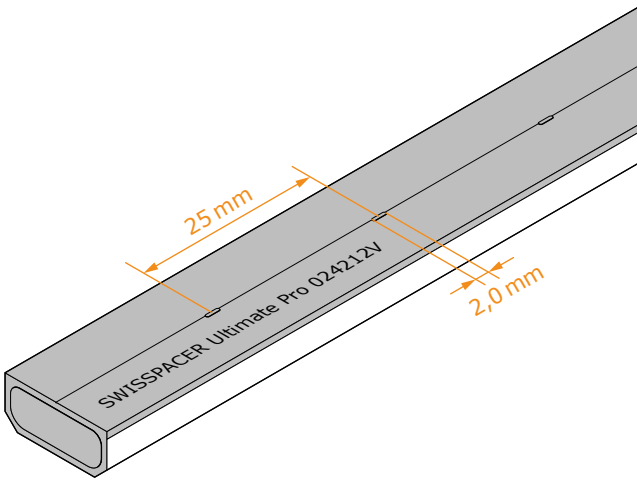
The proven properties of the original SWISSPACER warm edge can obviously be relied on: SWISSPACER ULTIMATE PRO offers especially low thermal conductivity – as proved by the BF data sheets.

Especially economical
Maximum efficiency in the production process – especially for large-format insulating glass units

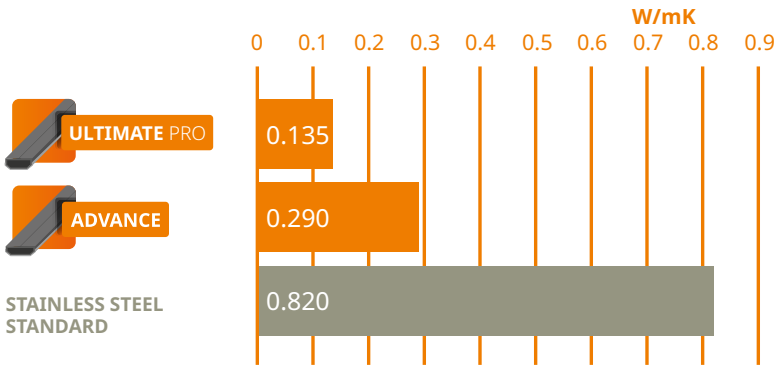
Reliable function
Assured quality of outcome for especially long-lasting insulating glass units

Proven advantages of the warm edge
High energy efficiency saves costs and CO_2, a higher temperature at the glass edge avoids condensation and the formation of mould





Thermal conductivity compared



Equivalent thermal conductivity in W/mK according to EN 12664:2001-01 and ift guideline WA17/1

Psi values of façades compared

Façade profiles W/m²K		Wood-metal	Metal with thermal break (d_i = 100 mm)	Metal with thermal break (d_i = 200 mm)
Glazing		Double | triple glazing		
Spacer bar	Stainless steel	0.083 | 0.079	0.011 | 0.010	0.120 | 0.100
	SWS ADVANCE	0.066 | 0.061	0.088 | 0.075	0.093 | 0.078
	SWS ULTIMATE PRO	0.055 | 0.050	0.074 | 0.062	0.078 | 0.064

Double glazing insulating glass unit: 6-16-6 (U_g = 1.1 W/m²K) | triple glazing insulating glass unit: 6-12-4-12-6 (U_g = 0.7 W/m²K)
Source: ift Rosenheim WA-22/2 (Arbeitskreis Warme Kante (Warm Edge working group)) / BF Window data sheets

Psi values of windows compared

Window system W/m²K		Wood 1.4 – 1.3	Plastic 1.2	Wood + aluminium 1.4	Aluminium 1.6
Glazing		Double | triple glazing			
Spacer bar	Aluminium	0.082 | 0.089	0.076 | 0.078	0.094 | 0.100	0.110 | 0.120
	Stainless steel	0.053 | 0.054	0.051 | 0.050	0.059 | 0.060	0.068 | 0.064
	SWS ADVANCE	0.039 | 0.037	0.039 | 0.037	0.042 | 0.040	0.047 | 0.042
	SWS ULTIMATE PRO	0.031 | 0.029	0.031 | 0.030	0.033 | 0.031	0.036 | 0.032

Double glazing insulating glass unit: 4-16-4 (U_g = 1.1 W/m²K) | triple glazing insulating glass unit: 4-12-4-12-4 (U_g = 0.7 W/m²K)
Source: ift Rosenheim WA-08/3 (Arbeitskreis Warme Kante (Warm Edge working group)) / BF Window data sheets

DID YOU **KNOW?**

SWISSPACER AIR IS THE INNOVATIVE SOLUTION FOR PRESSURE-EQUALISED INSULATING GLASS UNITS

You know the problem: Differences in altitude and climatic stresses lead to build-up of excess or negative pressure in the insulating glass. The resulting tension can lead to glass breakages and premature ageing.

With SWISSPACER AIR you can avoid these critical conditions: The little component works to equalise the pressure between the surrounding environment and the cavity between the panes, which minimises the risk of breakage during transport over different heights. What's more, SWISSPACER AIR also makes it possible to safely create larger cavities between the panes which also delivers other advantages – such as improved sound insulation.

More information: www.swisspacer.com

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