GEORGIAN BARS

Where aesthetics meet
energy efficiency

SWISSPACER

The edge of tomorrow.

SWISSPACER
GEORGIAN BARS

LOWER HEATING COSTS, PREMIUM LOOK –
WITH GEORGIAN BARS FROM THE LEADER IN INNOVATION

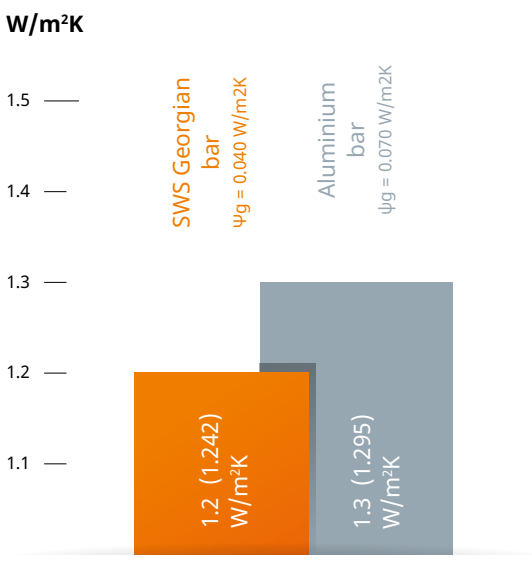
With Georgian bars from SWISSPACER you can offer windows that are both aesthetically highly appealing and also of the very finest quality. The Georgian bars are made from the same proven material as the SWISSPACER spacer bar and in the popular SWISSPACER colours. They therefore improve not only the look but in particular the energy efficiency of every window.

Metal bars inside the insulated glass unit have a negative impact on energy efficiency. According to EN 1435-1, a figure of up to 0.3 W/m²K should be added to the U_w value when using them.

That isn't necessary with the SWISSPACER Georgian bar because it's made from the same insulating plastic composite material as the SWISSPACER spacer bar. Cold bridging in the insulated glass unit is therefore avoided. Unlike bars made from aluminium, the thermally optimised bars from SWISSPACER therefore have only a minor impact on the U_w value of the window.

This difference can also be illustrated in numbers: Use the CALUWIN software to demonstrate these differences with technical values and convince your customers. CALUWIN is available as an app for iOS and Android devices, and an online version can also be found on the SWISSPACER website.

The comparison in numbers



WINDOW	**Single-sash window** Width = 1.23 m; height = 1.48 m
FRAME	**Aluplast IDEAL 8000** Uf = 1.100 W/m²K; 0.586 m²
GLASS	**CLIMAPLUS ECLAZ 4 / 4** U_g = 1.10 W/m²K; structure: 4/4; g = 71%
SPACER BAR	**SWISSPACER ULTIMATE** Ψ_g = 0.029 W/mK
BARS	Cross with 2 horizontals; internal

The length-related heat transfer coefficient ψ (Psi) is much lower with the SWISSPACER Georgian bar than with aluminium bars. The negative impact on the window's energy efficiency is minimised.

VARIANTS FOR EVERY NEED: 13 SIZES – 17 COLOURS

Reconciling the style of years gone by with modern, sustainable solutions – this is the challenge that increasing numbers of residents are offering architects and window manufacturers. In order to meet this rising demand for windows with traditional Georgian bars, SWISSPACER offers an extensive range of 13 different sizes and 17 individual colours. Beyond these, customer-specific versions are also possible.

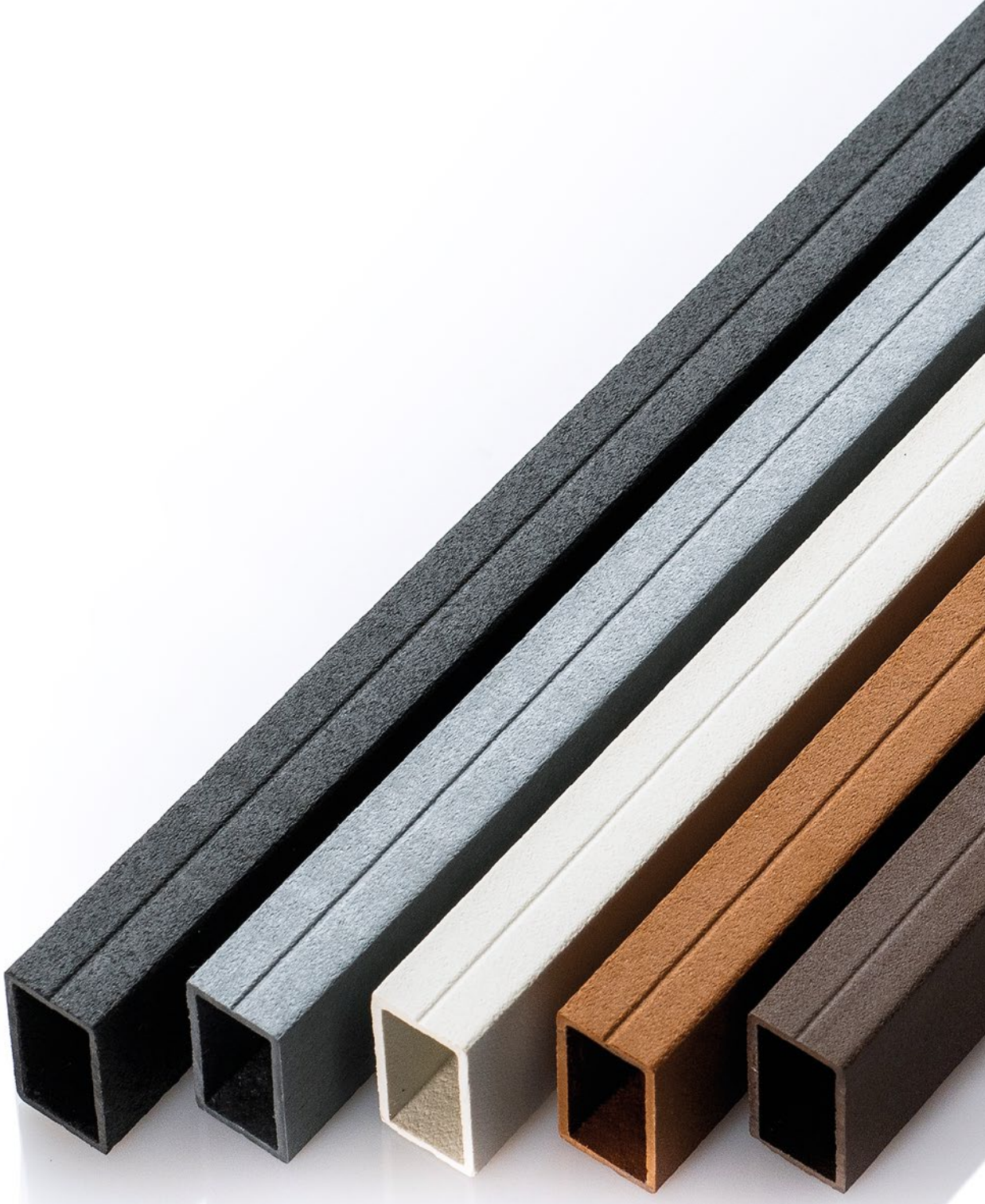
HEIGHT	WIDTH				
8 mm	20 mm 24 mm 30 mm	08 x 20	08 x 24	08 x 30	
10 mm	20 mm 24 mm 30 mm	10 x 20	10 x 24	10 x 30	
12 mm	18 mm 20 mm 24 mm 30 mm	12 x 18	12 x 20	12 x 24	12 x 30
14 mm	24 mm 30 mm	14 x 24	14 x 30		
16 mm	18 mm	16 x 18			

STANDARD COLOURS

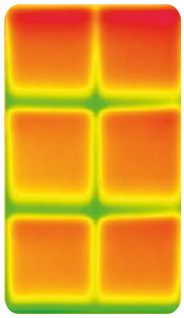
- **Titanium grey** RAL 9023
- **White** RAL 9016
- **Light grey** RAL 7035
- **Dark brown** RAL 8014
- **Black** RAL 9005
- **Light brown** RAL 8003

SPECIAL COLOURS

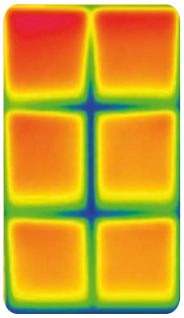
- **Sulphur yellow** RAL 1016
- **Beige** RAL 1001
- **Grass green** RAL 6010
- **Light ivory** RAL 1015
- **Red brown** RAL 8012
- **Opal green** RAL 6026
- **Pastel yellow** RAL 1034
- **Brown green** RAL 7013
- **Sapphire blue** RAL 5003
- **Beige brown** RAL 1011
- **Yellow green** RAL 6018
- \+ Other colours on request



with SWISSPACER



without SWISSPACER



The image taken with a thermal imaging camera shows that the SWISSPACER Georgian bar is much “warmer” than conventional bars.

EXTENSIVE ACCESSORIES

In order to execute windows with Georgian bars, the SWISSPACER programme has a range of appropriate accessories – in different sizes and exactly matched to the dimensions of the bars. You can obtain transparent versions of the end caps and T-connectors, which enables you to use these accessories for all bar colours and so minimise stock levels.

CROSSES

Colours

transparent, black
titanium grey, light brown
dark brown

The number and shape of the slats ensures the best possible clamping of the cross in the bar. For all bars from a depth of 10 mm, the crossing point is shaped so as to prevent the installed bars from rattling (integrated rattle protection).

RATTLE PROTECTION

Colours

transparent

For crosses with a depth of 8 mm, a plug is used at the crossing point to prevent the installed bars from rattling. In all other crosses the rattle protection is integrated.

T-CONNECTOR

Colours

transparent

The SWISSPACER T-connectors have no end stop, which ensures jointless coupling points. Thanks to the transparent design, the T-connectors can be used for all colour variants, reducing the amount you need to keep in stock.

END CAPS

Colours

transparent, black
titanium grey, light brown
dark brown

The end caps can be quickly and easily clamped (after brief preheating). Alternatively, the bars are pre-drilled and then screwed to the plug. The integrated, centred screw channel ensures exact, straight fixing.

DID
YOU KNOW?

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

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.

So what does that have to do with windows fitted with Georgian bars? The pressure equalisation provided by SWISSPACER AIR prevents the panes in an insulated glass unit from bulging outwards excessively. The little component therefore minimises the risk of external decorative bars detaching from the profile and glass.

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