

Kömmerling InVitra achieves passive house standard

The profine system Kömmerling InVitra has now achieved passive house suitability as defined under ift guideline WA-15/2. The U_f value of $0.96 \text{ W}/(\text{m}^2\text{K})$ was measured on a variant featuring a prefoamed “pro-EnergyTec” frame. As in the standard design, the sash is fitted with a steel reinforcement. This means that the corresponding passive house windows – including colour elements – can be manufactured in the standard production process.

Kömmerling InVitra is a versatile six chamber centre seal system with a 70 mm construction depth and therefore ideal for renovations. The standard system design attains even with an aluminium cover a U_f value up to $1.1 \text{ W}/(\text{m}^2\text{K})$.

Three layers of sealing and a centre seal guarantee high protection against driving rain, optimal imperviousness to wind, and excellent sound insulation up to 47 dB. The wide range of glazing variants include modern triple glazing and special functional glazing up to 52 mm thick.

The “high thermal insulation” variant achieves a U_f value of $0.79 \text{ W}/(\text{m}^2\text{K})$. Here, both the frame and sash profiles feature the “pro-EnergyTec” prefoaming technology developed by profine. The steel reinforcements can be omitted, and the static requirements are then fulfilled by a bond that transmits forces between the window sash and the glazing.

All Kömmerling InVitra variants feature a recessed linear design and slender profile sight lines for the greatest possible passage of light and greater solar energy gains.

The system offers virtually unlimited colour schemes in the form of the new profine laminate colour range with a total of 87 different wood-grains, plain colours, and metallic colours. Likewise attached aluminium covers can be provided with a wide range of finishing techniques like powder coating, anodising, and micaceous iron oxide paint with metallic pigments for even greater colour design potential.

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Corporate Communications:
Martin Schweppenhäuser
Telefon +49 (0) 6331 / 56-18 04
Telefax +49 (0) 6331 / 56-15 15
martin.schweppenhaeuser@
profine-group.com

Issued by:
profine GmbH
International Profile Group
Mülheimer Straße 26
53840 Troisdorf
Telefon +49 (0) 2241 / 9953-0
Telefax +49 (0) 2241 / 9953-3561
info@profine-group.com
www.profine-group.com

Starke Marken:





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Graphic: profine

About profine:

profine GmbH – International Profile Group – is a worldwide leading manufacturer of PVC-U profiles for windows and doors and a renowned provider of shutter systems and PVC sheets. With its KBE, KÖMMERLING, and TROCAL brands, the Group has an excellent international standing at 29 sites in 22 countries. profine Group manufactures at production facilities in Germany, France, Italy, Spain, Russia, India, Ukraine, the USA and China, with its head office in Troisdorf, North Rhine-Westphalia, and a payroll of 3,000.

Starke Marken:

