

KBE 88 mm system now also available as "Alufusion" variant

With "Alufusion", the profine brand KBE offers a patented* plastic aluminium composite system for its 88 mm profile series which combines the advantages of both materials in an unrivalled way.

Windows made with the profine system "Alufusion" are an innovative combination of both materials: Whilst in traditional alu solutions, the aluminium cover is simply attached to the support, "Alufusion" windows feature a functional aluminium profile connected directly to the inside PVC-u profile. Thus, an additional static function is adopted by the aluminium profile.

"The PVC-profile provides high thermal and acoustic insulation properties as well as cost-effectiveness. On the other hand, aluminium contributes large freedom of architectural design as well as superior load-bearing properties to this combination", explains Stefan Schäfer, head of the KBE brand Product Management of profine.

Steel insertions are only necessary for special applications of "KBE System_88mm ALUFUSION". The innovative "Alufusion" technology no longer needs a glazing bead and special functional glazing in thicknesses of 26 mm and 38 mms can be integrated into the sash. Excellent load-bearing properties of "Alufusion" enable the manufacture of large window surfaces, room-high elements as well as doors up to a sash height of 2,600 mm with a width of 1,000 mm.

The aluminium covers of KBE „System_88mm ALUFUSION“ are available in two different variants, i.e. in straight, off-set and semi-flush designs.

The system with a constructional depth of 88 mm is available as rebate and centre gasket type. The semi-flush centre gasket variant achieves a u_f value of 1.1 W/(m²K), excelling with a considerably increased thermal insulation compared with traditional aluminium windows. When using insulating core elements and thermo-steel, the u values of KBE „System_88mm ALUFUSION“ can even be further improved.

"Alufusion" can be completely recycled as the plastic and aluminium profiles are separated. And the profine system fulfils another criterion for sustainable product development with the exclusive use of lead-free "greenline" stabilizers in the virgin material.

With its timeless aluminium look, the choice from the complete RAL colour range and its slender PVC-u profiles, "Alufusion" represents a window type which is particularly in vogue for architects.

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Stefan Schäfer: "Alufusion facilitates the entry to façade design for window manufacturers, offering them the opportunity to capture markets where traditional plastic windows have, until now, had only few chances to be considered".

* Patent: EP 1 877 640 B1



KBE „System_88mm ALUFUSION“ – here shown in semi-flush version – combines the advantages of the materials PVC-u and aluminium in an unrivalled way.

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About profine:

profine GmbH - International Profile Group - is the world-wide leading manufacturer of plastic profiles for windows and doors as well as a notable supplier of shutter solutions and PVC sheets. The company was established in 2003, when HT TROPLAST consolidated its profile business activities (KBE, KÖMMERLING, TROCAL) under one roof.

profine has a total of 3,350 employees at 28 locations in 21 countries. Around 2,000 of these employees work in Germany.

The production sites are located in Germany, France, Italy, Spain, Russia, Ukraine, the United States and China. The company headquarters is in Troisdorf (North Rhine-Westphalia, Germany).

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