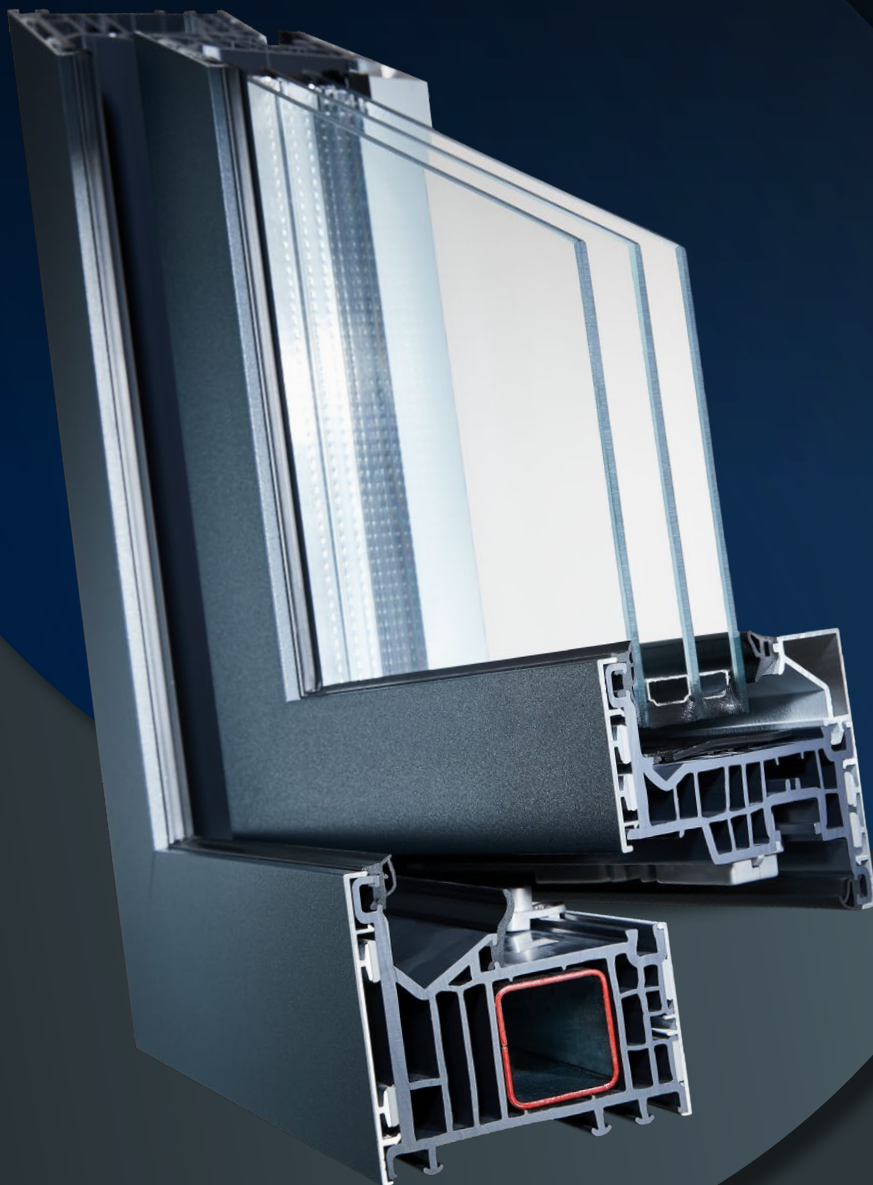


VEKA AluConnect

The aluminium window – reimagined.



The Quality Profile
★ ★ ★ ★ ★ ★ ★ ★



The best of two worlds.

VEKA has completely rethought the aluminium window. The result is VEKA AluConnect: high-quality aluminium surfaces structurally bonded to a newly developed PVC-U core. With this unique construction principle, VEKA AluConnect unites the advantages of aluminium windows and the outstanding thermal insulation characteristics of PVC-U windows – the best of two worlds.

All these attributes make VEKA AluConnect the ideal window system for modern residential and commercial construction. The unique VEKA system enables the efficient manufacturing of window elements of premium quality and appearance in large quantities – e.g. for commercial and industrial projects or for public buildings.

Energy efficiency.

VEKA AluConnect achieves the high thermal insulation efficiency of $U_f = 1.1 \text{ W/(m}^2\text{K)}$ without additional measures.

Constructive intelligence.

Thanks to its innovative and extremely sturdy construction, VEKA AluConnect allows element sizes that satisfy market requirements.



Attractive design.

VEKA AluConnect is an understated expression of clear style and timeless elegance. The system is available in a wide range of attractive colours.

High wear resistance.

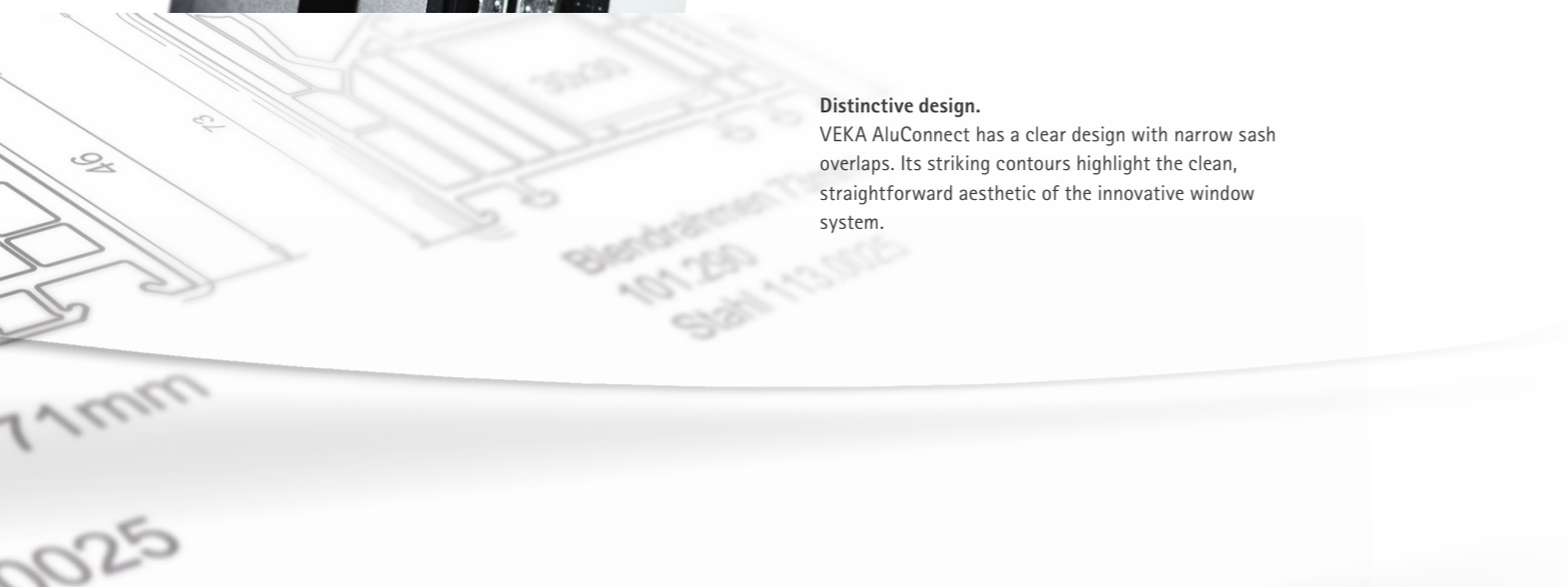
VEKA AluConnect has an especially high-quality powder coating that meets the specifications of Qualicoat Class 2 and the 'highly weather-resistant' standard of GSB.





Premium look.

VEKA AluConnect sets itself apart through a timelessly modern aluminium look that wins over discerning architects and design-conscious clients. Its lines and proportions make the window system extraordinary. And beyond form, an extensive colour palette provides for stylish accents in any architectural context.



Distinctive design.

VEKA AluConnect has a clear design with narrow sash overlaps. Its striking contours highlight the clean, straightforward aesthetic of the innovative window system.



Broad colour variety.

With VEKA AluConnect, the possibilities for customised design are virtually unlimited. The standard range encompasses no fewer than 20 carefully selected colours and finishes. In principle, nearly all the hues of the RAL palette can be realised, along with various gloss levels and surface textures.

Enduring beauty.

VEKA AluConnect maintains its attractive appearance for a very long time. This is ensured by the highly weather-resistant (HWF) powder coating of all exterior aluminium surfaces, which fulfils the quality requirements of Qualicoat Class 2 and GSB International Master – thus setting a new standard for aluminium windows. The coating's high resistance to the effects of sunlight, precipitation and other environmental influences has been proven in rigorous weathering and laboratory tests.



Excellent structure.

VEKA AluConnect consists of a quality aluminium surface over a high-performance PVC-U core. These are structurally bonded to form a durable shear connection that gives the windows a high degree of stability.

Reliable strength.

This makes possible the manufacturing of generously proportioned elements of maximum size, as currently in demand among developers and house owners. All types of modern functional glazing can also be used without difficulty. And thanks to the strong construction, no steel reinforcement is required in the sash.



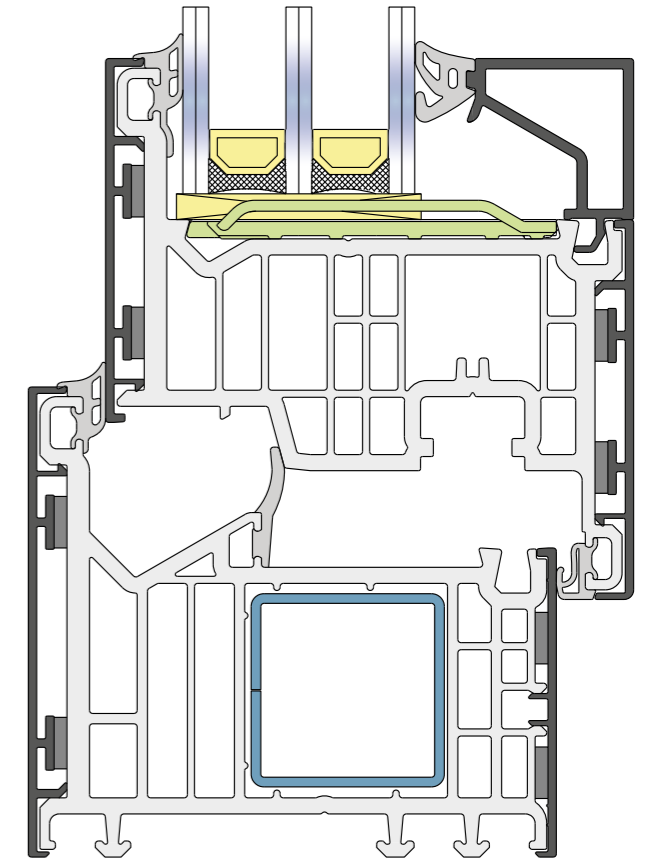
Built-in energy savings.

Through its unique construction alone, VEKA AluConnect achieves outstanding thermal insulation. The newly developed multi-chamber PVC-U core and the high-performance centre seal system allow very little heat energy to pass between the exterior surfaces.

Thermal efficiency made easy.

Thanks to this effective thermal separation, very good insulation values can be achieved without additional measures.

- $U_i = 1.1 \text{ W/(m}^2\text{K)}$
- Accommodates all modern triple glazing

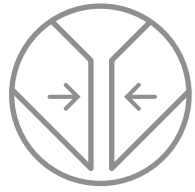


Forward-looking sustainability.

In addition to energy efficiency, the factor of sustainability is of increasing importance to house owners. With its systematic emphasis on saving resources, VEKA AluConnect is convincing in this point as well.

Closed materials cycles.

Aluminium windows made of VEKA AluConnect can be easily recycled by VEKA Umwelttechnik. This closes the materials cycles for PVC-U and aluminium while also saving valuable energy.

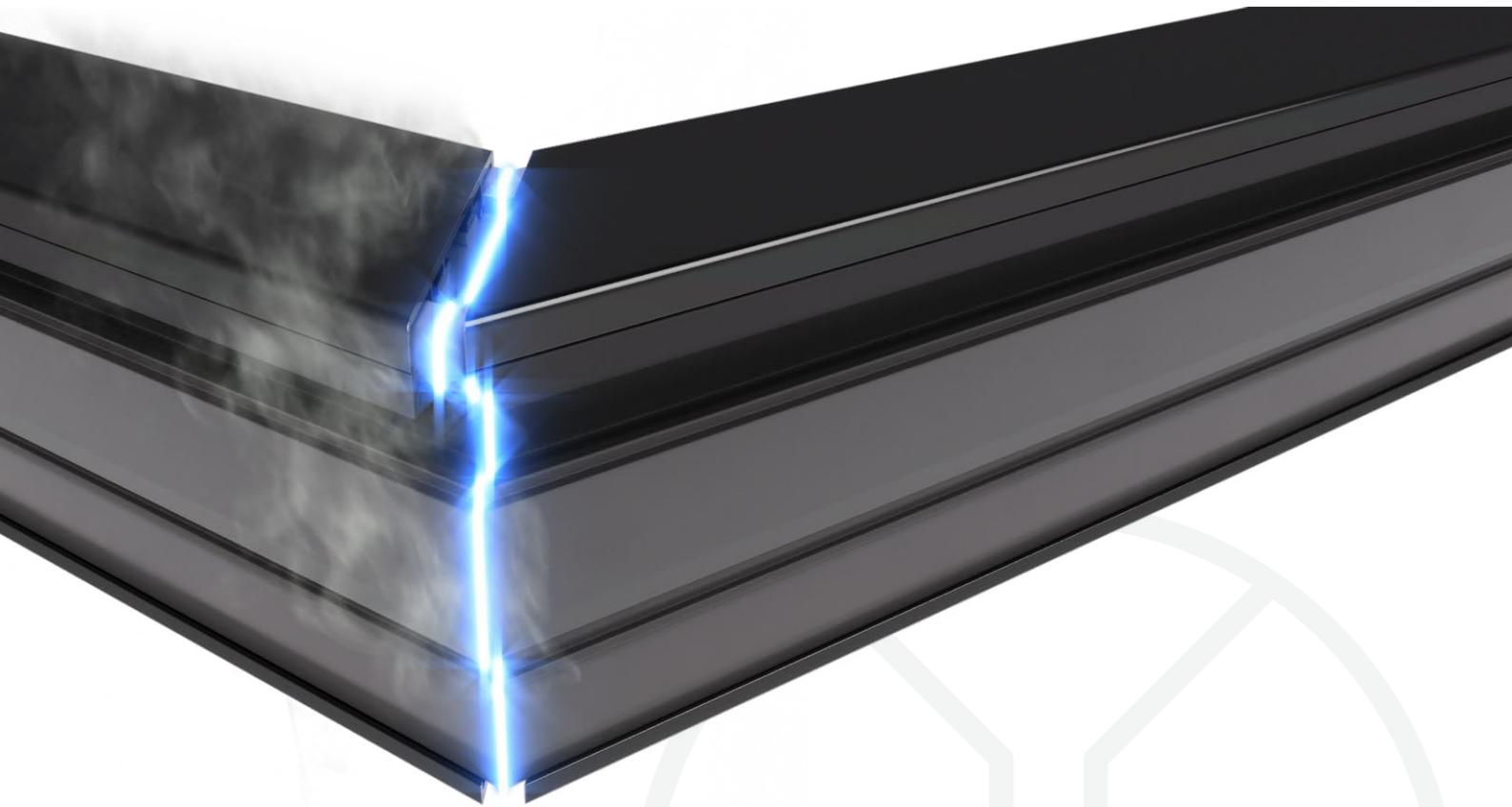


The weldable aluminium window.

VEKA AluConnect enables aluminium windows to be produced in the same way as PVC-U windows for the first time, and almost as quickly: by welding. This revolutionary approach offers many practical and economic advantages.

Simple path to a perfect result.

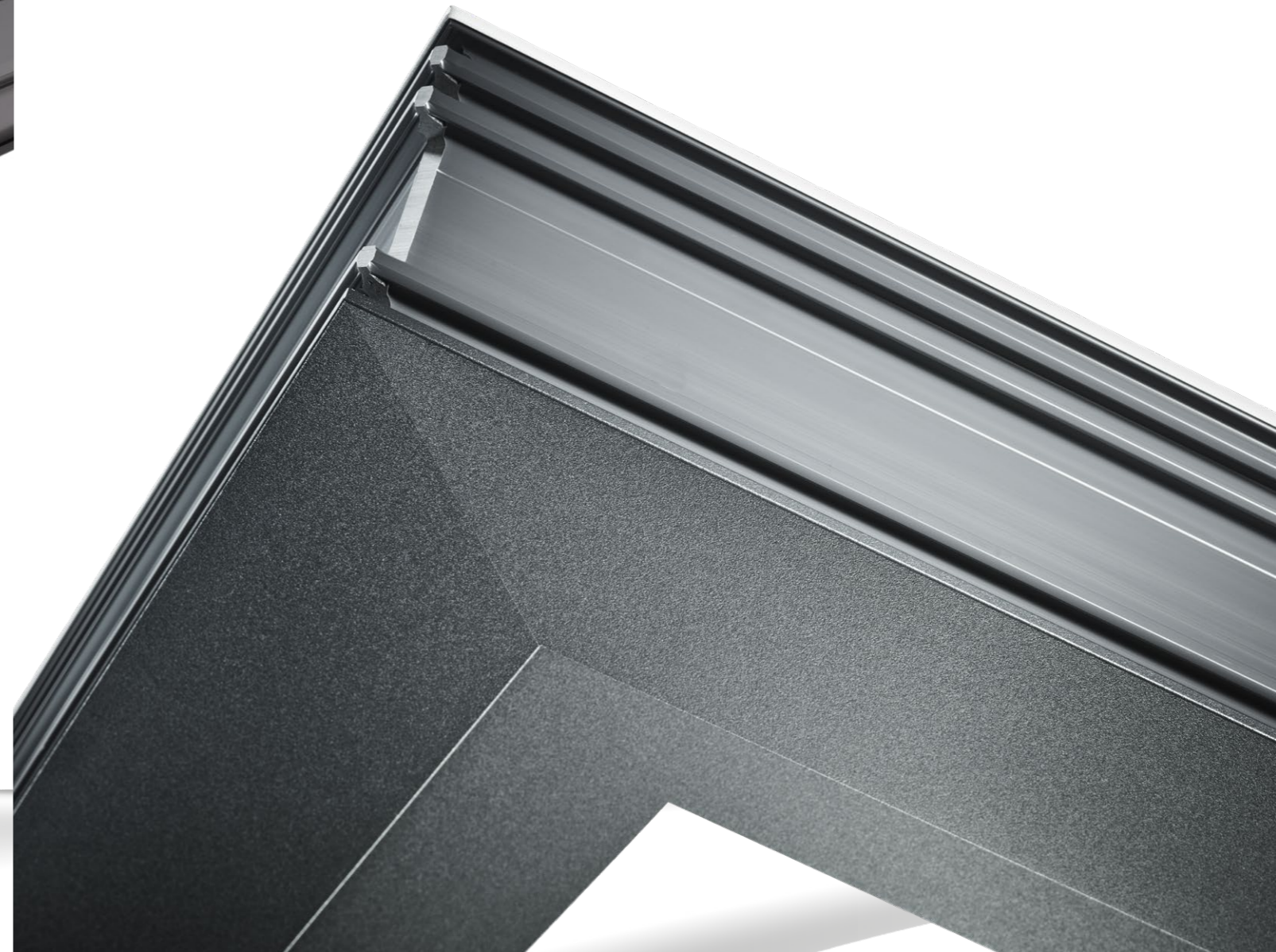
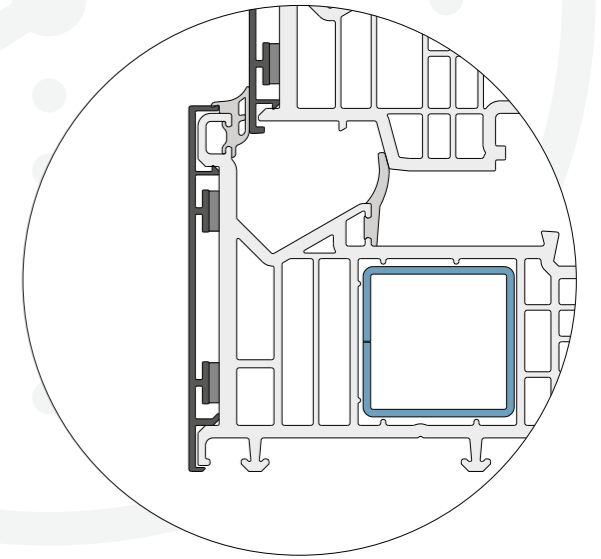
Aluminium windows made with VEKA AluConnect can be manufactured by welding the PVC-U cores together in the customary manner. The aluminium profiles must simply be milled to achieve a precise fit, so that the mitre joint closes cleanly when pressed together – resulting in a high-quality, virtually seamless appearance.



Highest manufacturing efficiency.

VEKA AluConnect brings the time-proven practice of welding to the manufacture of aluminium windows. The system is thus perfectly suited to the industrial production of standard window combinations and residential doors. At the same time, it yields a high degree of processing efficiency:

- Significant time savings through accelerated manufacturing
- Assembly without corner connectors, screws, etc.
- Use of Euronut fittings
- Steel-free sash construction
- Weldable gaskets on profile
- Combinable with VEKA PVC-U system
- Delivered with protective foil





Uncompromising economy.

Right from the start, VEKA AluConnect was developed with the aim of simplifying the fabricator of aluminium windows in all conceivable ways. As a window fabricator, you profit not only from time-saving production, but also from a profile system that requires little preparatory work. A further advantage: most proven, economical fittings and connecting profiles that are used for PVC-U windows can be used with VEKA AluConnect as well.

Production-ready.
VEKA AluConnect is delivered ex works according to order. The exterior aluminium surfaces are powder-coated in advance in the desired colour and structurally bonded with the PVC-U core. In addition, weldable gaskets are pre-installed, eliminating the need for time-consuming insertion by hand. The profiles are covered with a protective film.

VEKA AluConnect: The advantages of two worlds in one unique system.



VEKA AluConnect sets itself apart through an innovative construction principle: attractive exterior aluminium surfaces are structurally bonded with a high-quality PVC-U core. This results in numerous advantages for you as a window fabricator and for your customers. It enables you to offer them aluminium windows in the high quality they are accustomed to.

Furthermore, VEKA AluConnect increases your potential to take part in requests for tender, e.g. due to its high-quality, highly weather-resistant (HWF) powder coating that meets Qualicoat Class 2 and GSB International Master standards.

- Economy**
- Substantially greater production efficiency
 - Industrial processing possible
 - Economical fittings selection
 - High compatibility with PVC-U mounting profiles
- Strength**
- High stability due to innovative construction principle
 - Maximum sizes possible, to meet market demands
- Insulation**
- Outstanding U_f value of $1.1 \text{ W}/(\text{m}^2\text{K})$ – without additional measures



VEKA AG

Ein Unternehmen der Laumann Gruppe

Dieselstraße 8

D-48324 Sendenhorst

Telefon +49 2526 29-0

info@veka.com

www.veka.de

