

**GEALAN Fenster-Systeme GmbH**

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## GEALAN Fenster-Systeme at FENSTERBAU FRONTALE 2018:

### **A showcase focused on surface technology, digitisation and automation**

**GEALAN's motto, "Innovation by Design", is the inspiration for the company's stand at FENSTERBAU FRONTALE 2018, featuring surface technology, digitisation and automation as the key elements. Across its own themed islands, GEALAN will provide information to trade fair stand visitors about subjects such as the smart home, and the possibilities offered by the new sales channels which are unlocked when real and virtual worlds are brought together.**

**GEALAN will also present its initial conceptual solutions. Visitors to GEALAN at stand no. 5/103 in Hall 5 will also find an extensive range of new product innovations.**

### **Outlook: digitisation and automation**

Digitisation is advancing at a practically unstoppable rate, and across a huge range of arenas in life. Buildings are becoming intelligent, and manufacturing companies are working on Industry 4.0 in order to optimise processes. In addition, buying and decision-making parts for products and services are increasingly shifting to the online segment. What might these trends mean for windows as a product? At its trade fair

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stand, GEALAN is dedicating themed islands to these higher-level areas, and informing visitors about subjects such as the smart home and the new sales channels which are unlocked when real and virtual worlds are brought together, as well as BIM (Building Information Modelling). The topics are all connected to the trade fair stand and its exhibits, meaning that trade fair visitors can experience them for themselves at GEALAN stand no. 5/103 in Hall 5. The automation of windows, front doors and lift-slide doors throughout entire buildings' required opening solutions is also a central aspect in generating greater comfort for users.

## **acrylcolor surface technology**

GEALAN's trade fair programme for FENSTERBAU FRONTALE 2018 will also shine a spotlight on acrylcolor surface technology, which has been tried and tested over the course of almost 40 years. Not only will this technology feature in a majority of the exhibits shown, it will also be possible for visitors to practically and visually experience the qualities and advantages of this proven surface technology.

The icing on the cake in the presentation will be the new acrylcolor tones: deep black RAL 9005, DB 703 and quartz grey RAL 7039. GEALAN is supporting architectural design vocabulary by including these colours in the standard acrylcolor colour palette range. In addition, acrylcolor "Bronze Metallic" will be presented: a completely new devel-

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opment tone that continues the successful strategy of transferring contemporary colours into surface technology.

## **Real wood foils**

At FENSTERBAU FRONTALE 2018, GEALAN will be presenting six new decorative foils in the GEALAN foil programme to its partner companies for the first time. The foils are offered under the protected word and design mark “Realwood Folie<sup>®</sup>”, and they feature a surface structure that is extraordinarily similar to wood. They are significantly less reflective than standard decorative wood foils and give windows a truly special look and feel. Realwood foils include attractive embossing and lend the natural appearance of wood to plastic windows, even though the foils themselves are not made from wood.

The range of surface design solutions in profile systems from GEALAN will also be brought together in a central themed island for first time this year, allowing trade fair visitors to experience the solutions for themselves. At the stand, customers and interested parties will be given a targeted insight into exciting innovations in acrylcolor surface technology as well as in decorative foils.

## **GEALAN-KUBUS<sup>®</sup> all-glass system**

The GEALAN-KUBUS<sup>®</sup> all-glass system that was launched last year now has an established market share, as proven by its implementation in properties within Germany and beyond.

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The new profile system with completely hidden horizontal sashes supports contemporary building design in an all-glass look, enables a very high proportion of glass in windows and balcony doors, and opens up the path for GEALAN customers to enter completely new product segments.

GEALAN-KUBUS<sup>®</sup> also offers impressive heat insulation. With a certified  $U_f$  value of 0.88 W/(m<sup>2</sup>K), the innovative GEALAN-KUBUS<sup>®</sup> all-glass system achieves ideal performance as well as fulfilling ift passive house criteria. The system's outstanding heat insulation properties are achieved through innovative profile design and targeted, resource-efficient use of IKD<sup>®</sup> foam technology in the frame profile. This means that GEALAN-KUBUS<sup>®</sup> also enables the use of colour in the construction of window elements that are appropriate for passive houses, in accordance with ift guideline WA-15/2 – and does so using standard profiles and standard steel stiffening elements.

## **A highly leak-tight in-line sliding system**

GEALAN will also be presenting its new in-line sliding system for the first time at FENSTERBAU FRONTALE. The main feature of this system is an all-round external gasket that the system sash is pressed onto using smart fitting technology. As a result, the sealing principle from traditional tilt-and-turn elements is also transferred to sliding solutions. By combining profile and fitting technology, the GEALAN sliding system

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achieves ideal performance for impermeability to water, air and noise – to a level that is unmatched among traditional sliding systems. Another advantage of the GEALAN sliding system is the low system installation depth for the sashes and frame. This not only enables efficient production line processing of the frame profile, which is welded all the way around, but also makes it suitable for use in renovation projects.

The new sliding system from GEALAN can be used for the construction of both sliding windows and sliding doors. GEALAN customers can open up a new and exciting product segment with the new sliding system, as affordable living space is increasingly rare – particularly in urban centres. The GEALAN sliding system combines the space-saving convenience of sliding solutions with extraordinary leak-tightness and easy operation for the first time.

### **The S 9000 system platform for enhanced differentiation**

The fully developed S 9000 system platform is another highlight from GEALAN which will be on show at FENSTERBAU FRONTALE in Nuremberg. This combination system forms the ideal basis for the construction of contemporary windows, French windows, front doors and lift-slide doors. With a system installation depth of 82.5 mm and three gasket levels throughout, it combines the advantages and characteristics

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of central and rebate gaskets and can be used for both new builds and renovations.

The S 9000 offers customers and interested parties extraordinary options for differentiation within a system family. For window manufacturers, product diversity in one system makes it possible to serve a variety of market requirements with appropriate window products, while also taking storage and production optimisation into account. The diversity of the S 9000 system platform can be discovered at the contemporary GEALAN trade fair stand.

In addition, the S 9000 is designed for maximum heat insulation. It achieves excellent  $U_f$  values of up to  $0.89 \text{ W}/(\text{m}^2\text{K})$  in the central gasket version, and up to  $U_f = 0.97 \text{ W}/(\text{m}^2\text{K})$  in the rebate gasket version.

### **GEALAN-LUMAXX: narrow frame profiles for more light**

The GEALAN-LUMAXX, a new profile combination from the S 9000 system, is composed with particularly slender lines. It increases the proportion of glass and therefore the amount of light that passes through the window by up to 25%. Narrow lines can be achieved with the new GEALAN-LUMAXX, without forgoing ease-of-use and security. Among other applications, it can be used for renovating listed buildings and for reproducing the narrow mullion sightlines of historical wooden window structures. Despite the focus on the narrow sight-

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lines, there has been no compromise in terms of the structure.

## **New introduction of the S 9000 plus**

GEALAN completes the S 9000 system platform with the S 9000 plus product version with its own window design. A fixed central domed gasket is a striking feature that identifies the S 9000 plus system addition and sets it apart. This gasket is based on proven GEALAN system engineering and protects the hardware against mechanical attacks. The S 9000 plus is fully compatible with sashes and glazing beads, as well as S 9000 system front doors and lift-slide doors. In addition, all mullion profiles can be used with accessories.

## **The S 9000 NL system for the Dutch market**

The next step for GEALAN in building out the S 9000 system platform is in the direction of the Netherlands. The full S 9000 NL GEALAN system has been available in the Netherlands in white, cream white, decorative foils, and acrylcolor since 2017. Equipped with an advanced and innovative central gasket solution, the S 9000 NL is making waves on the market and offers ideal performance. This is due in part to a heat insulation value (certified at ift Rosenheim) of  $U_f = 1.0 \text{ W}/(\text{m}^2\text{K})$ , which is achieved even in colour window elements with 2mm standard steel stiffening elements in the frame and sash.

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## **Flush-mounted window design in the S 9000**

At the GEALAN trade fair presentation, there is also a window element to be discovered that is flush-mounted internally and externally and is based on the S 9000 system platform. This flush mounting is achieved through the use of a newly developed sash and an additional profile for the room side. The outcome is a premium window look that is clearly distinct from the tried-and-tested recessed design. Integrating this solution into the S 9000 guarantees optimised processing.

## **Development study for 0 mm threshold solution**

The question of accessibility is becoming increasingly important, particularly in the field of cross-generational buildings, and is thus giving rise to the need for barrier-free transition solutions for ceiling-to-floor elements. This is the inspiration for a development study being undertaken by GEALAN that offers a 0 mm transition between indoors and outdoors for French windows and front doors and at the same time can be fully integrated into the window system. The product study is demonstrated on a fully functional front door with a filling panel that overlaps the wings, and a fixed side section.

## **Natural ventilation with reduced noise**

At FENSTERBAU FRONTALE 2018, GEALAN will present an advanced refinement of the familiar box window. This new window unit fulfils the highest requirements for noise protec-

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tion – including when in ventilation position, due to tip opening. In addition, its narrow sightline widths ensure the greatest possible light ingress, setting it apart from existing solutions. The new form of the box window principle is also known under the Port City Window name and represents a window solution for high-density urban areas. GEALAN is expanding its Port City Window development by adding of automation and intelligent control capabilities. The window element consists of the visually appealing GEALAN-KUBUS® system in the external section and – on the room side – GEALAN-Lumaxx, which is remarkable for its high proportion of glass. Both individual elements are brought together to form a single unit using an innovative frame structure. Rotary opening to the inside makes cleaning windows easy and straightforward.

## **Existing solutions for country-specific markets**

In addition to innovations in the S 9000 system platform, the new sliding system, and the focal themes of digitisation, automation and surface, GEALAN will also be presenting country-specific project solutions for the French and Italian markets.

A threshold structure will be presented specifically for France. This fulfils the specific French standards on sealing in junction areas to complexes, and supplements the S 8000 IQ system with a 74 mm installation depth.

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And last but not least, the proven S 7000 IQ central gasket system with narrow mullion solution will be presented in combination with a new shutters solution.

At GEALAN stand 103 in Hall 5 at FENSTERBAU FRONTALE, customers and interested parties will be able to see more than the wide range of innovations by design and high-performance products offered by GEALAN. The varied product range will be rounded off by services offered by the GEALAN Future Centre and the Architectural Service.

## **BIM (Building Information Modelling)**

Building Information Modelling, or BIM for short, describes an integral method for handling construction projects digitally. GEALAN has taken up the challenge of providing appropriate 3D models for the construction industry. Visitors and customers as well as architects and planners can find out about the latest developments in Building Information Modelling at the GEALAN trade fair stand.

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