



INNOVATION MIT SYSTEM

System platform

GEALAN S 9000

A woman with blonde hair, wearing a red long-sleeved top and light-colored pants, is sitting on a grey sofa. She is smiling and looking towards the camera. The room has a red wall, a large window, and a white vase with flowers on a wooden table.

BRILLIANT MIX

Convincing arguments

ENTIRELY FUTURE-PROOF

With the S 9000 profile system, you get a state-of-the-art advanced system that can be used equally both for new buildings and for refurbishment. This way, S 9000 develops into a new platform for building windows, front doors, and

tilt/slide doors in GEALAN's product portfolio. Furthermore, the new, installation deep system convinces by the following arguments:

Recyclable



S 9000 builds upon a closed materials cycle by using entirely recyclable materials and relies upon using material concepts tried and tested for many years.

Design-oriented



The newly developed profile geometries are characterised by the 15° incline in the projection characteristic for GEALAN. It emphasises the timeless visual appearance of the new system.

Powerful

U_f up to
0,89

S 9000 is designed for maximum possible thermal insulation. Extraordinary U_f values of up to 0.89 W/m²K in the central seal variant and up to 0.97 W/m²K in the compression seal variant can already be achieved without time-consuming and expensive additional measures – e.g. thermally separated steels.

acrylcolor

STV®

IKD®

82,5 mm

ACRYLCOLOR SURFACE

Windows with the tried-and-tested ACRYLCOLOR surface have long service lives and maintain the same surface quality throughout. They offer comprehensive design possibilities for new constructions and renovations.

STV® INTEGRATED

You can also use the innovative, RAL-certified glass adhesion method GEALAN STV® (static dry glazing) for S 9000 as well.

IKD® INTEGRATED

By using the foaming technology IKD® (intensive core insulation) in a targeted manner, outstanding thermal insulation properties can also be achieved for coloured windows.

VERSATILE

With an installation depth of 82.5 mm, S 9000 is ideally suitable for new buildings and refurbishments and offers numerous design options, e.g. by means of a mono-French casement profile for particularly narrow views or a sash in half-stepped visual appearance.



S 9000 SYSTEM PLATFORM

S 9000 system platform

Windows, Lift/slide doors, Front doors,
Sliding system

S 9000 combined system

ALL ADVANTAGES IN ONE SYSTEM

As a combined system, GEALAN's new S 9000 system combines the characteristics and advantages of central and compression seals with its installation depth of 82.5mm. The huge installation depth, six profile chambers in window frames, sash, and shafts and three end-to-end sealing levels guarantee outstanding thermal insulation. This way, the windows themselves meet the highest requirements.

The external acryl-glass coat ensures high resistance to scratching and a smooth surface that is easy to clean and maintain.

acrylcolor

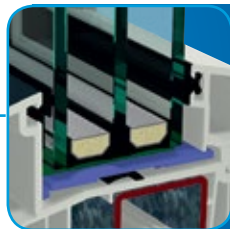
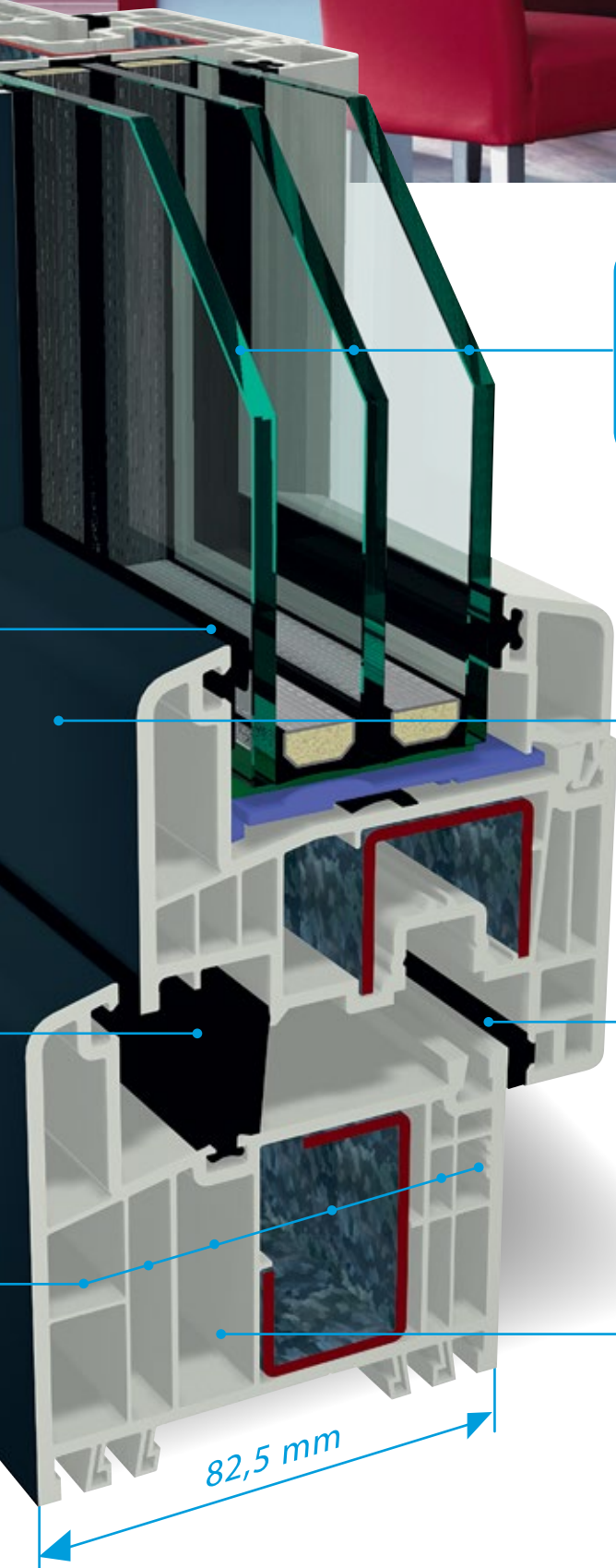
Optimised for using STV® in order to dry glue window and sash projection.

STV®

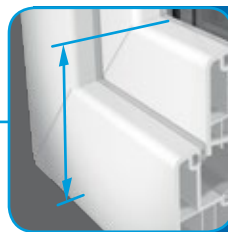
The central sealing level in the window frame rebate provides an essential contribution to enhancing the thermal insulation. Additionally, it protects the mounting elements against the ingress of moisture resulting in an enhanced opening behaviour, particularly at low outside temperatures. Optionally, S 9000 is also available as a compression seal version with two sealing levels.

Very good thermal and sound insulation through 6-chamber design and large installation depth for window frame and sash.

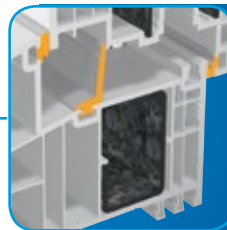
82,5 mm



Suitable for supporting triple functional glazing with a maximum thickness of 52mm (STV® 54mm).



Narrow profile elevation width and design-oriented 15° incline for timeless visual appearance.



Intelligent sealing concept with three end-to-end sealing levels.

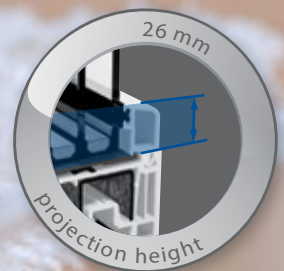
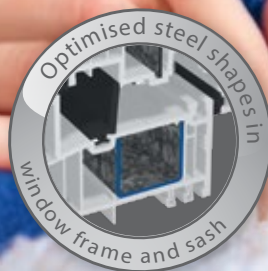
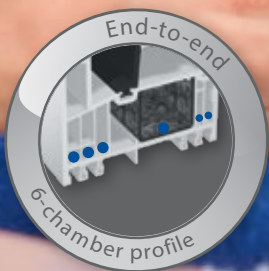


Enhancement of the thermal insulation possible by using the foaming technology IKD®.



Optimised thermal insulation

Developing a system with the best thermal insulation properties is not a coincidence, but the result of target-oriented development work. Our success proves us right. Numerous calculations resulted in extraordinary thermal insulation values. Right from the beginning, the development work aimed at achieving passive house-compliance according to IFT in standard combinations with steel and, thus, best thermal insulation properties. This was achieved by the sum of innovative details regarding the system design.



1 End-to-end 6 chambers in window frame, sash, and shaft for outstanding thermal and sound insulation.

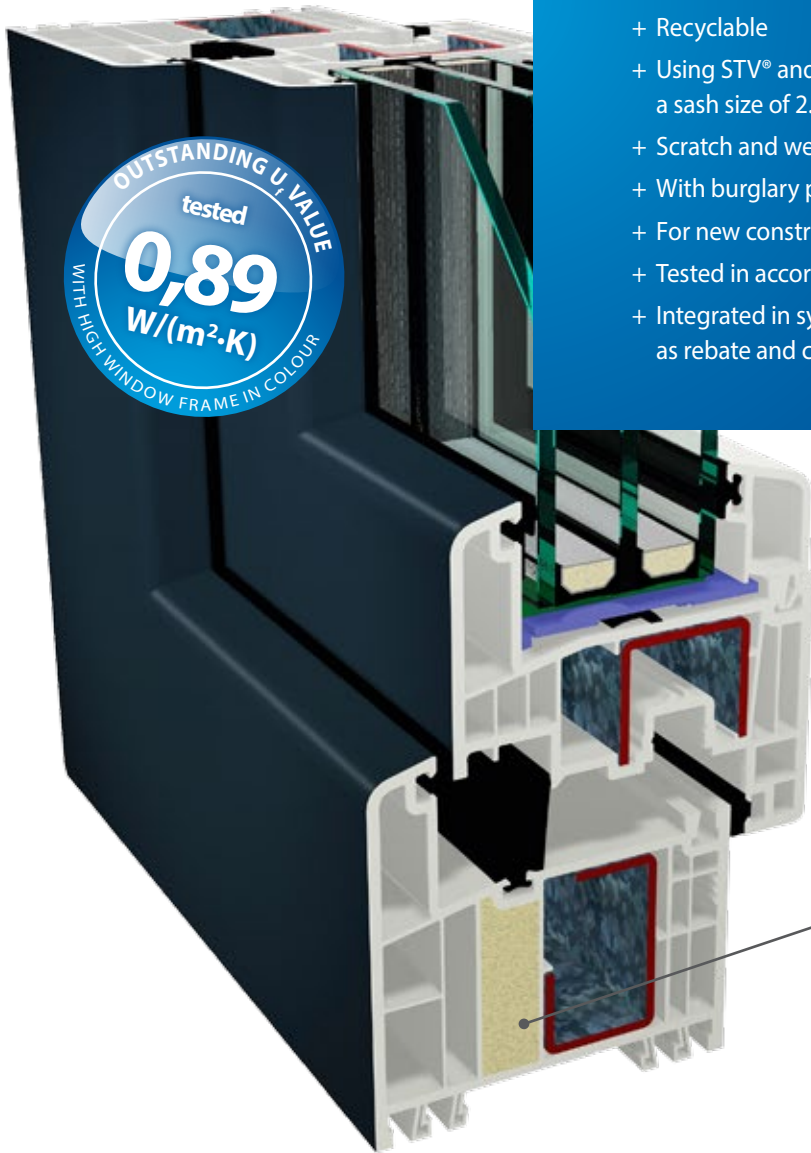
2 Precisely fitting steel shapes for an ideal relation between statics and thermal insulation.

3 Intelligent sealing concept with three end-to-end sealing levels. In this, the flexible central seal in the rebate of the frame provides an essential contribution to thermal insulation, since it reduces the heat flow in the rebate area.

4 A high glass projection by a projection height of 26 mm for enhanced thermal insulation.

GEALAN-FUTURA®

THE PASSIVE HOUSE-COMPATIBLE WINDOW ALSO IN COLOUR



- + Recyclable
- + Using STV® and standard reinforcements up to a sash size of 2.4 metres
- + Scratch and weather-resistant thanks to ACRYLCOLOR
- + With burglary protection, RC 2
- + For new constructions and renovations
- + Tested in accordance with the new standard RAL-GZ 716
- + Integrated in system platform S 9000, S 9000 available as rebate and centre seal system

IKD®

IKD® - intensive core insulation

IKD® - one of the most advanced ways to improve the thermal insulation performance of a window

GEALAN-FUTURA®

GEALAN-FUTURA® is the individual profile combination in the S 9000 system. It offers the option of building passive house-compatible window elements in colour in accordance with the ift directive WA-15/2 using standard profiles and standard 2 mm steel bracing elements. The tested U_f value of 0.89 W/m²K confirms the outstanding basic thermal insulation properties. Using GEALAN-FUTURA®, maximum sash dimensions of up to 2.40 m are possible when using the STV® adhesion technology.

Front door variants

WELCOMING ELEGANCE AND CLASSICISM



Front doors are the business card of the house and provide the entrance area with charm and aesthetics. With its new S 9000 front door system, GEALAN offers the right product to cater for all tastes. You can decide between the classic and the wing overlapping variant.

And thanks to the flexible colour design of the numerous decorative foils, you may adapt your front door to the overall visual appearance of your façade.

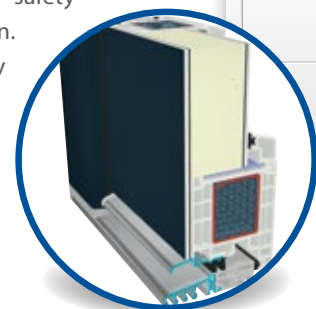
CLASSIC

When selecting the classic front door variant, you already provide your house with a very personal note. Since there is no limit to the play of shapes and colours. Design your front door according to your own ideas.



DESIGN

The plane view of the door wing when selecting the design variant offers maximum aesthetics without having to make any compromises regarding safety and thermal insulation. This way, you are not only provided with additional design freedoms, but furthermore facilitate the maintenance of your door due to the missing offsets.





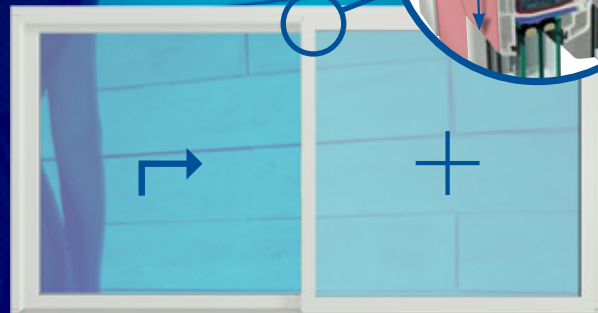
Lift/slide doors

LIVING ROOMS WITH SPECIAL LIGHT

Sliding elements constitute a classic stylistic element of state-of-the-art living where generously designed glass surfaces convey complacency and elegance. GEALAN's new S 9000 tilt/slide door meets these requirements from a visual and functional point of view. Using our technology, large door elements can be moved easily. It does not matter whether the door is open or closed. In any case, the room is provided with large amounts of light. And the virtually sill-less floor connection additionally suppresses the separation between interior and exterior.

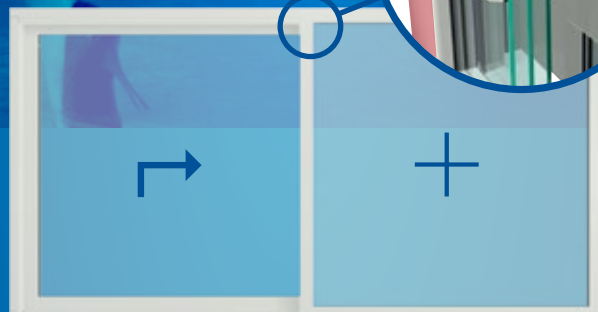
CLASSIC

With 100mm, the elevation width of the wing already is very narrow in standard design.



DESIGN-ORIENTED

For this special variant, the normally usual wing in the stationary field is replaced by a narrower glazing profile. This step reduces the profile elevation width in the stationary field by more than 50 percent.



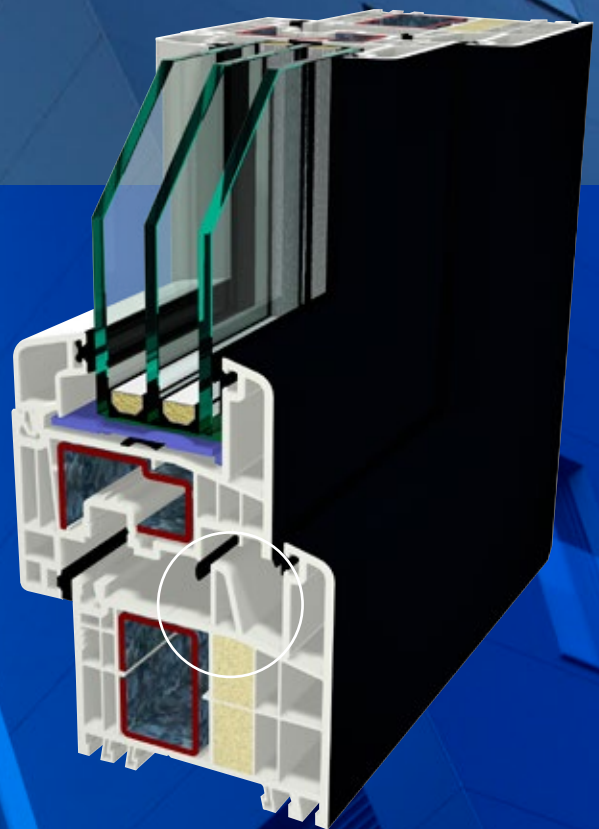
TECHNICAL HIGHLIGHTS:

- + U_f up to 0,95 $W/(m^2 \cdot K)$
- + Innovative system technology
- + Triple glazing up to 52mm (STV® 54mm)
- + IKD®- integrated

S 9000 plus

EVOLUTION OF THE SYSTEM

S 9000 plus is a new GEALAN middle-sealing system with a stable rib on the inner part of the window frame. The middle-sealing rib effectively protects mechanical parts of the window from external factors. Middle-sealing systems ensure heat insulation thanks to their superior properties.



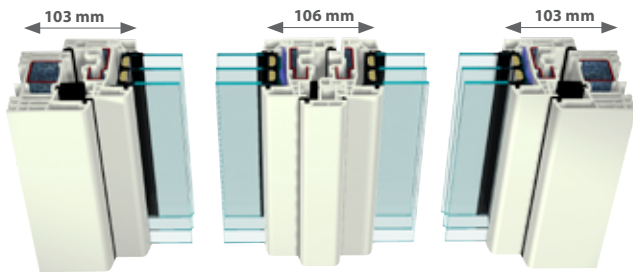
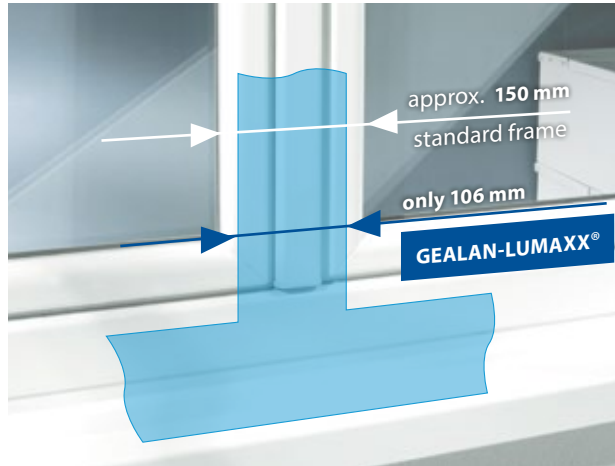
Advantages of S 9000 plus system windows with a stable middle-sealing rib

- + Security
- + Easy to clean
- + Individuality
- + Comfort due to better heat insulation

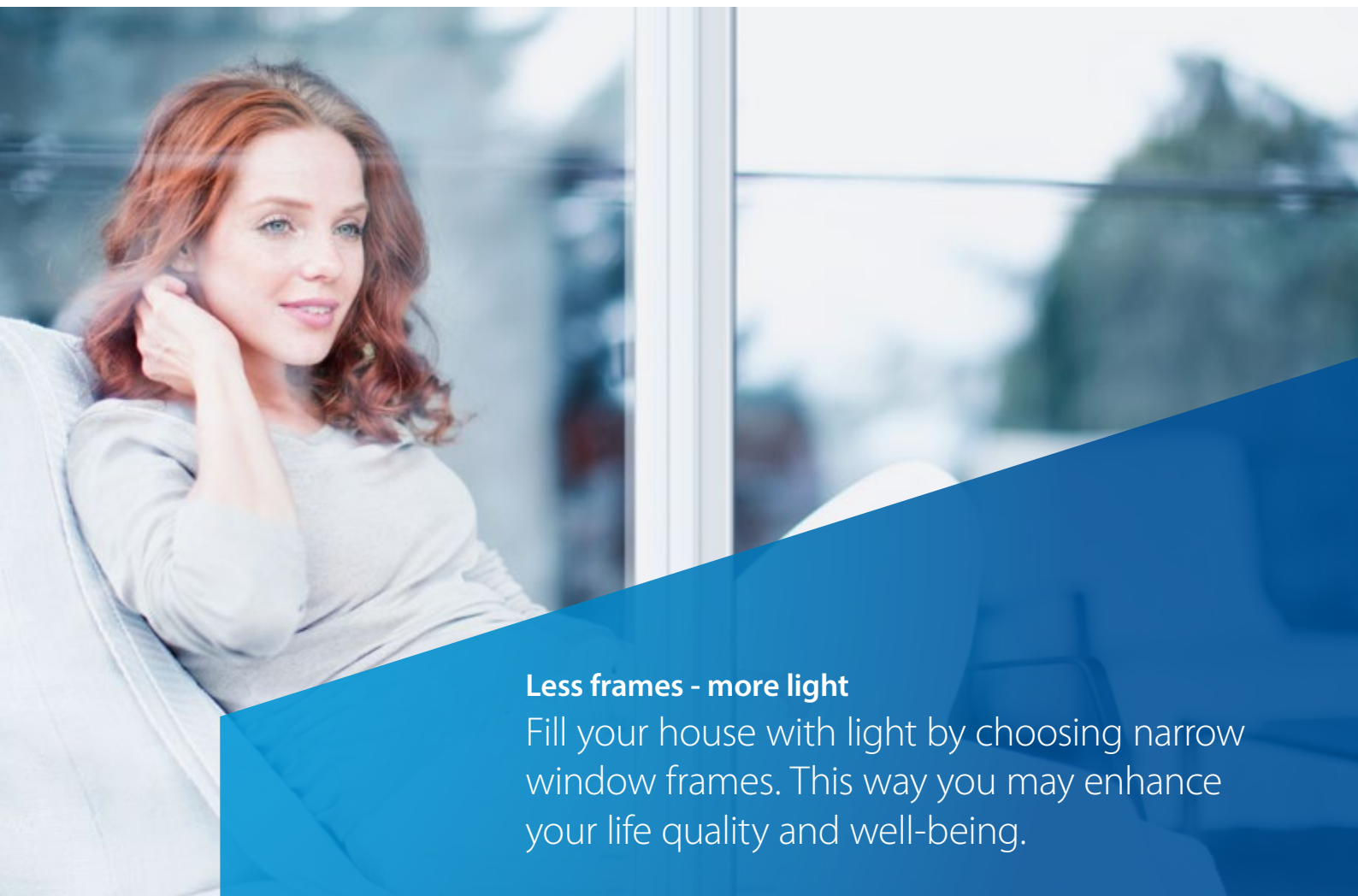
GEALAN-LUMAXX®

SIGNIFICANTLY SMALLER FRAME

Upon direct comparison it has been established that GEALAN-LUMAXX system is significantly narrower compared to frame constructions used before. Earlier mullion (French Casement) constructions frequently reached up to 150 mm and were wider. Unsightly massive bars distorted window proportions and prevented more light from flowing in. Now, upon application of the new system, narrow window constructions are available without compromising on comfort and safety.



When GEALAN-LUMAXX system was being developed, all frame geometry parameters were optimised by minimizing profile size as much as possible. The designers also strive for balanced ratio of thermal insulation and static characteristics as well as pursue harmony of fitting elements. Symmetrical single mullion allows even more flexibility in window design.



Less frames - more light

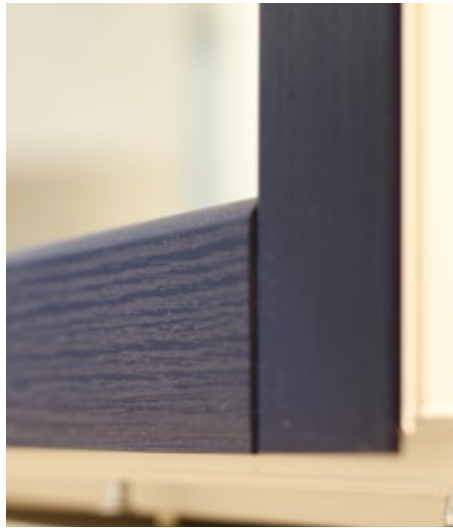
Fill your house with light by choosing narrow window frames. This way you may enhance your life quality and well-being.

Colouring in the S 9000 system



NUMEROUS DECOR FOILS

For everyone who appreciates a natural appearance without sacrificing the benefits of modern window technology, there are vinyl windows with a wood grain look achieved using decor foils. Windows with decor foils offer all the positive properties of modern vinyl windows combined with the decorative effect of wood.



REALWOOD – EXCLUSIVE DECOR FOIL

You can find many different wood decor foils for plastic windows. However, only the Realwood foils give your windows a particular look and a special feeling. Realwood foils do not shimmer as much as standard wood decor foils. They have an attractive embossing and give plastic windows the natural appearance of wood, even if they are not made of wood. Concerning the colour effect the new foils, which are available in six attractive plain colours, have a special appeal characterized by a surface, which is much closer to the look of genuine wood. The functional advantages cannot be denied, as they are convincing thanks to their high durability to the UV and weather resistance, and due to their surface structure they require little maintenance and are stain-resistant.

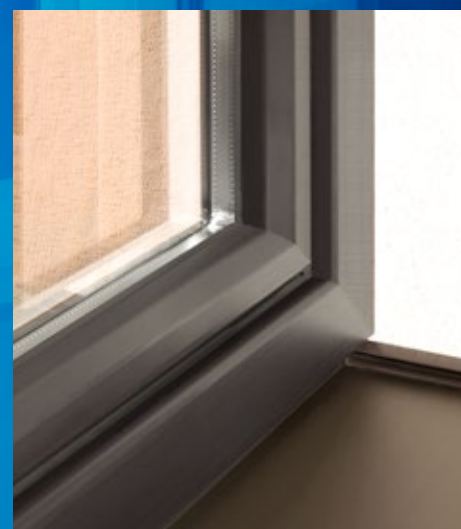


ALUMINIUM CASING

Windows from the S 9000 profile system with an aluminium casing combine the benefits of aluminium and vinyl. Their high functionality and modern, design-oriented aluminium look lend buildings a touch of exclusivity combined with the outstanding heat insulation of the vinyl window system. Vinyl windows with a coloured aluminium casing are not only resistant and durable, they also offer comprehensive options for personalisation of the colour.



acrylcolor



ACRYLCOLOR – UNIQUE SURFACE QUALITY

The colourful acryl coat is twice as durable as the PVC surfaces of white windows. They have high scratch resistance and are largely resistant against the effects of the weather. The semi-matt, smooth and nonporous finish surface is not susceptible to the accumulation of dust and dirt. Peeling and flaking off as well as the annoying repainting are things of the past. acrylcolor windows are practically free of all servicing and extremely easy to maintain.

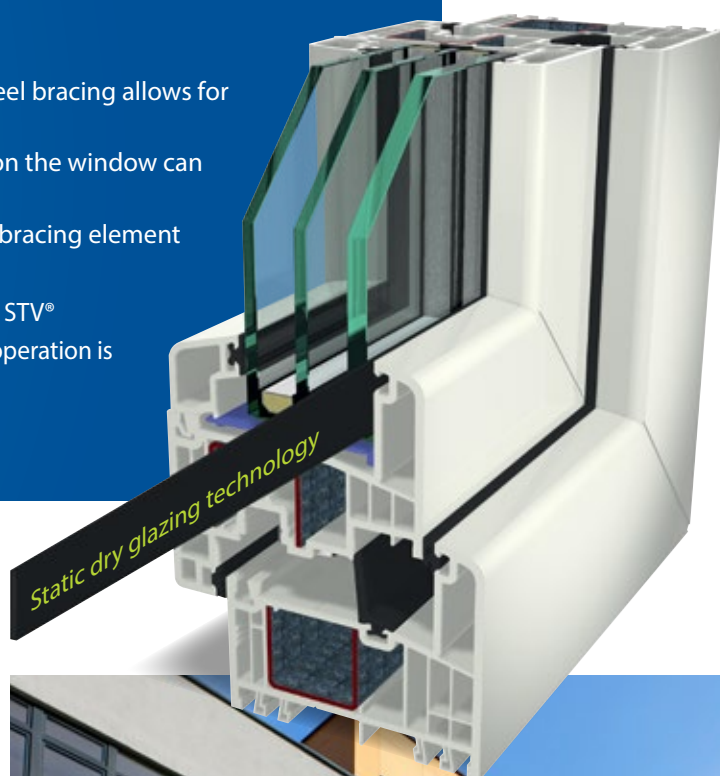
Enhanced statics

THANKS TO STV® THE STATIC DRY GLAZING

The STV® adhesion technology (static dry glazing) developed by GEALAN comprises the glueing of glass and sash profile while maintaining the usual use of glazing blocks. For this, a high-performance adhesive tape specifically designed for window construction is used. By glueing the glass to the sash profile, the stability of the glass window is transferred into

the sash and the entire system becomes more intrinsically stable. This way, elements can be produced in standard sizes without using any steel. In the combination STV® with steel in the sash, particularly large window elements can be produced.

- + The combination of STV® technology and traditional steel bracing allows for producing unprecedented element sizes.
- + Time-consuming adjustment and re-adjustment work on the window can be minimised.
- + Enhanced thermal insulation by relinquishing the steel bracing element for normal-size elements.
- + Even after having been used for a long time, windows with STV® technology close as precisely as a safe and the comfort of operation is increased.





Comfort and well-being

A controlled exchange of air is particularly important in rooms with high levels of humidity like kitchens or bathrooms.

GECCO-AUTOMATIC VENTILATION SYSTEMS

In order to prevent the formation of mildew in rooms, there is the automatic ventilation system GECCO (GEALAN CLIMA CONTROL). The small flap with huge effects turns normal windows into „air-conditioning windows“ At low wind pressures, the ventilation flap is open and closes the air duct in the event of higher wind speeds.



GECCO 3 open



GECCO 3 closed



GECCO 4 open



GECCO 4 closed

AIR WATCH

Even if the patented GECCO ventilation system provides for controlled basic ventilation, regular airing is indispensable. Therefore, the inside air must be changed entirely from time to time. GEALAN's Air Watch indicates its moisture content in a simple manner.





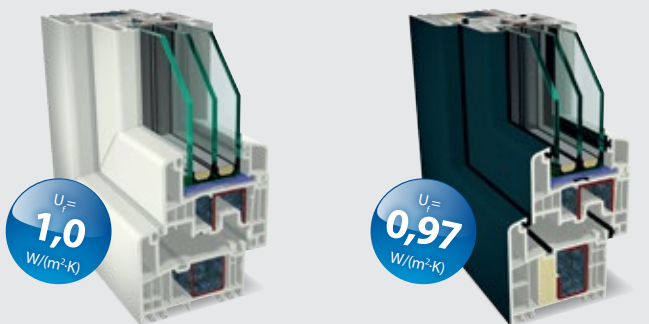
GEALAN eco-agreement

COMMITMENT TO RECYCLING MANAGEMENT

Already prior to the Recycling Management and Waste Law coming into effect, GEALAN offered its customers „Recycling management“ in the form of a „GEALAN eco-agreement“: Within the framework of this agreement, profile manufacturers and specialised window companies agree to recycle old plastic windows and the profile residues accumulating during window production. The goal is to supply the materials to closed PVC material recycling subject to prohibited landfilling. Since the highquality PVC product – the thermoplastic material is made of the natural raw materials natural oil or natural gas and common salt – is way too precious to be disposed of with the waste or in a waste incineration plant. Through its 100 percent recyclability, it absolutely lends itself for recycling. Even the PVC of removed old windows can be granulated and reconditioned. This way, PVC becomes one of the most recyclable materials.

TESTED U VALUE COMBINATIONS

COMPRESSION SEAL



Narrow frame with sash

High frame with coloured sash

CENTRAL SEAL



Narrow frame with sash and confirmed IFT passive house compatibility

High frame with coloured sash and confirmed IFT passive house-compatibility