

PVC window and door profile systems



ETICOM



- + Heat-insulating
- + Comfort
- + Innovative
- + Aesthetics
- + Ecology

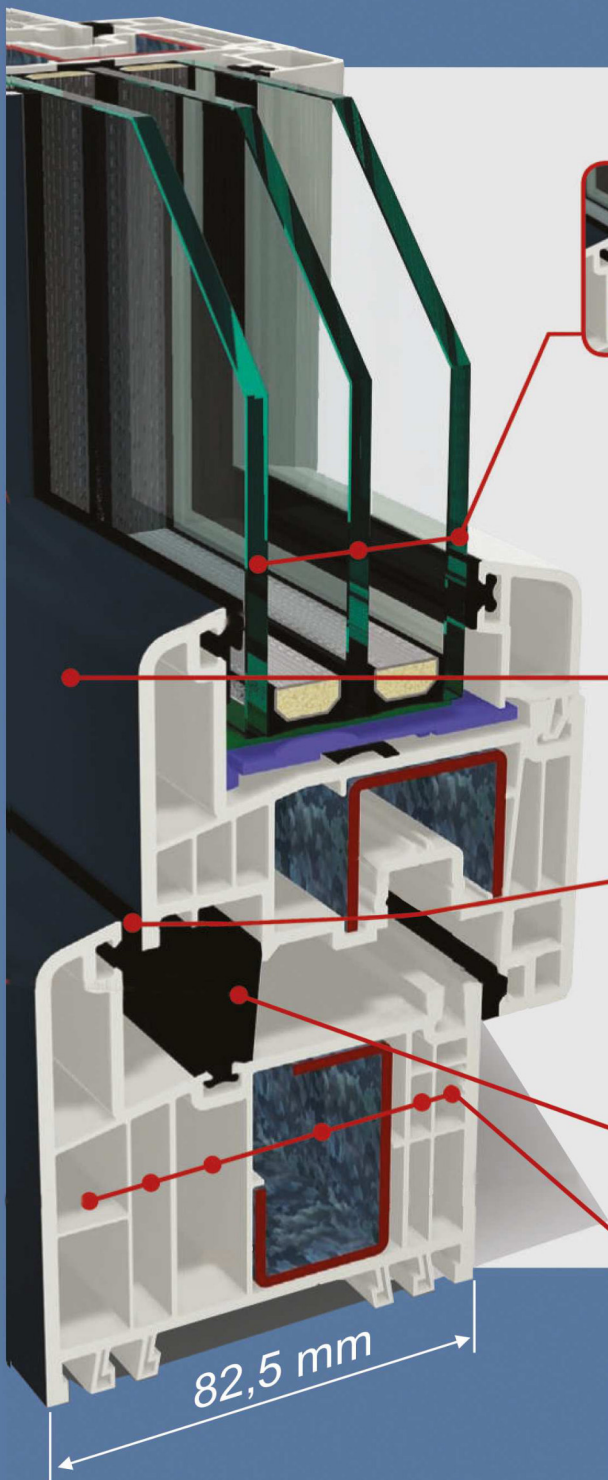
Quality windows for a better quality of life



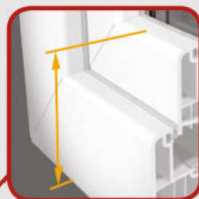
S 9000 combined system

All advantages in one system

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

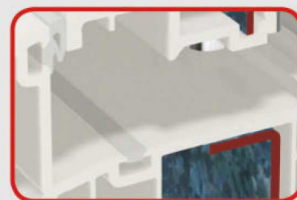
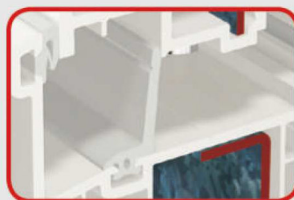


Suitable for supporting triple functional glazing with a maximum thickness of 52 mm (STV® 54 mm).



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

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



The centre sealing level in the window frame provides an essential contribution to enhancing the thermal insulation. Additionally, it protects the fitting 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 rebate 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.

S 8000

Quality without compromise

In the system S 8000, you can select from 5 or 6-chamber profiles. Their construction allows the use of large-sized steel reinforcement, which ensures excellent stability and strength complying with the requirements for construction objects with large window structures. The number and position of the chambers determines enhanced resistance to thermal conductivity and improves sound insulation performance. The wide surface of the profile facilitates the maintenance of the window.

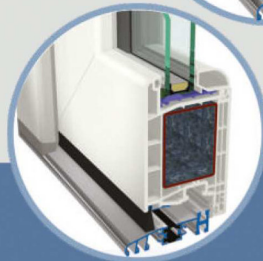
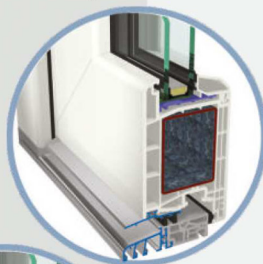
Facts and advantages

- + Profile width – 74 mm
- + Double sealing system
- + 5 or 6 chambers
- + Excellent thermal and sound insulation
- + High stability
- + Possibility to use GECCO 3 and GECCO 4 ventilation systems
- + ACRYLCOLOR and wood décor



Advantages

- + Wide-profile reinforcement in the frame and sash
- + High strength and stability
- + Excellent thermal and sound insulation
- + A narrow visible profile part
- + Choice variety
- + Reliable burglary protection



PVC door threshold

20 mm in height, the impact-resistant door threshold of PVC perfectly meets the modern concept of threshold-free housing construction designed for handicapped people. Such a threshold is the finishing touch of the general system of GEALAN thresholds of aluminium, aluminium with a heat insulating gasket, and durable glass fiber with high thermal transmittance resistance indicators. The low thermal transmittance level of the PVC material ensures excellent thermal transmittance performance of the threshold made of it, thus reliably protecting the lower door part from heat loss.

S 8000 doors

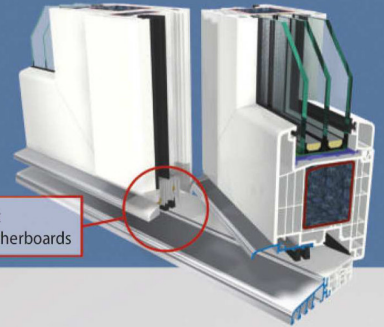
Strong and attractive label of the house

+++ Beautiful doors are justly considered the business card of the house and expression of its architectural style. The doors provide the façade with its original style, while they must also be strong and secure, and resistant to environmental impacts. In order to achieve the highest S 8000 system door strength and stability performance, the company GEALAN designed the inner partitions of the profile in such a manner that it became possible to use wide-profile reinforcement. 74 mm wide profile middle partitions and their position allowed increasing the rigidity of the applied steel fittings by 30 %. A cavity for lock is milled in the reinforcement. The threshold holders used in other GEALAN systems are also suitable for the system S 8000 and ensure a solid connection between the frame and the threshold. In order to avoid deviations of the sash and to ensure the stability of angles, welded joint angles are used. The wide range of component parts allows to produce doors of different configurations and types. You can use a variety of hardware and locks. They can be opened in both outward and inward direction. Door sashes are manufactured not only from white but also from ACRYLCOLOR profiles, as well as from the profiles with wood décor and colored film texture.

S 9000 doors

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 lift/slide doors in GEALAN's product portfolio. Furthermore, S 9000 front doors convince by the following arguments:



French casement solution for weatherboards

Suitable for accepting glass and panel thicknesses of as much as 52 mm (with STV® up to 54mm)

Very good statics due to large bracing chamber, steel reinforcement elements according to the form, and fitting corner reinforcements

Extraordinary thermal insulation through state-of-the-art 5-chamber technology

Flexible colour design due to numerous decorative foils or aluminium shells

Ideal driving rain protection

System solution for weatherboards optically enhances door elements and ensures ideal tightness through brush seals at several levels

Barrier-free system sill with extraordinary thermal insulation through thermal separation

82.5mm installation depth

Floor sill

Stability

- solid combination due to catching PVC and aluminium parts in two levels



Thermal insulation

- extraordinary thermal separation, even in the latch areas by a combined solution of aluminium and PVC
- very good isotherm curve – the risk of forming condensation water or thermal bridges is minimised this way

82,5

Accessibility

- with a height of only 20mm, the sill meets the requirements for barrier-free building according to DIN 18040-2



Wooden décors

A natural highlight

For everybody appreciating a natural appearance without compromising on the advantages of state-of-the-art window technology, there are plastic windows in wooden décor look. This is the right choice. Regardless of whether for refurbishing a half-timbered house or a planned new building – GEALAN wooden décor windows convince from a visual and functional point of view. They lend themselves as a classic stylistic element when refurbishing old houses and regarding landscape-related design. Décor windows are characterised by all positive properties of state-of-the-art plastic windows and simultaneously the decorative effect of wood.



A large selection of wood patterns and colours means you can choose exactly what you need. At the moment, we offer to choose desired lamination from more than 30 different wood patterns.

The wood patterns and colour palette is regularly updated. Therefore, when choosing the pattern and colour, please contact your service manager.



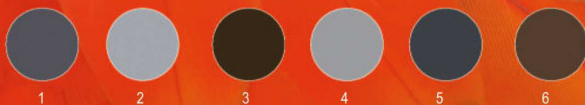
ACRYLCOLOR

Long live colours!

Coloured windows are a special distinguishing feature that forms unique images of buildings. Coloured window profiles allow the implementation of even unusual design projects and take into account regional architectural features. The palette of shades meets the most demanding needs: you can choose the most suitable colour ranging from noble white to luxurious silver. The high quality standard of ACRYLCOLOR is approved by the RAL quality mark. We manufacture coloured profiles under a specific co-extrusion technology in whose production process the white PVC core is fused with coloured acrylic layer. The outer coloured acrylic layer is resistant to mechanical damage and the negative effects of the atmosphere. The silky unglassy layer is non-porous, so it does not collect dust and dirt, it does not peel, scale, and does not require painting. ACRYLCOLOR windows are easy to maintain. ACRYLCOLOR windows do not fade and you will not notice any changes in the colour for decades.



Standard ACRYLCOLOR tones



Non-standard ACRYLCOLOR tones (only for S 9000)

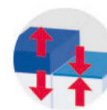


1 RAL 7015*	7 RAL 9006
2 RAL 7040	8 RAL 3011
3 RAL 8022	9 RAL 7039
4 RAL 9007	10 DB703**
5 RAL 7016	11 RAL 6009
6 RAL 8014	12 RAL 9010

ACRYLCOLOR advantages:



Non-varnished
and non-laminated



The acrylic layer
is 0.5 mm thicker than
any varnish or paint



Resistance
to mechanical
damage



The PVC core is consolidated
with the coloured acrylic layer
into a homogenous mass



The layer does not
peel or scale even after
a long time



Easy and simple
maintenance

The ACRYLCOLOR tones palette is regularly updated. Therefore, when choosing the colour, please contact your service manager.

* Unconventional colours (for the profile system S 9000 only) ** Additional colours (for the profile system S 9000 only)

Unique technology

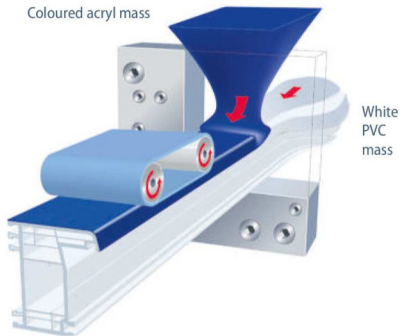
Unique surface structure

During the dyeing procedure of co-extrusion, the white PVC base bodies and the dyed acrylic glass are inseparably bonded with one another in a single work step. Fusing both of these materials produces a semi-matt, dyed external profile surface that withstands the effects of the weather with ease. GEALAN has been producing its ACRYLCOLOR profiles in the co-extrusion procedure for almost 30 years. GEALAN is setting standards by using this procedure, because it is essentially very different from the otherwise conventional dyeing procedures. Windows featuring ACRYLCOLOR profiles also satisfy the most stringent technical and functional requirements. The external dyed layer of acrylic glass is twice as hard as the PVC surface of white windows. It is highly scratch-resistant and is to a great extent resistant to the effects of the weather. The semi-matt, smooth and non-porous surface is insensitive to dust and dirt accumulating. There is no need for spalling, chipping and laborious subsequent coating. ACRYLCOLOR windows require virtually no maintenance and are extremely easy to care for.

Co-extrusion procedure

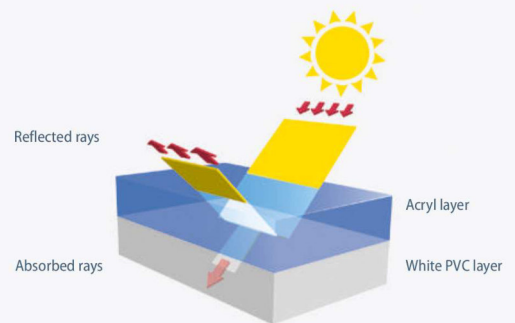
During the co-extrusion procedure, the white PVC base bodies and the dyed acrylic glass (PMMA) are inseparably fused with one another. Acrylic glass is a high-quality product, which has proven its qualities in industrial sectors such as the automotive industry (tail-lights) and interior design. The plastic profile acts as a carrier material, while the thin layer of acrylic glass secures the profiles' colouring.

Coloured acryl mass

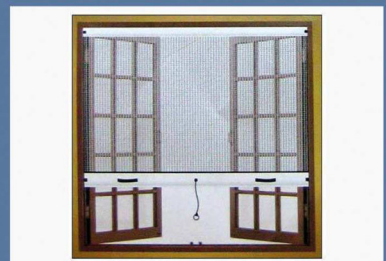
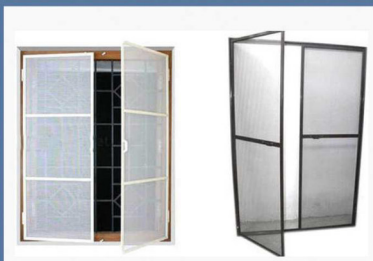
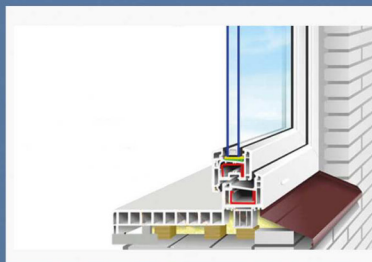
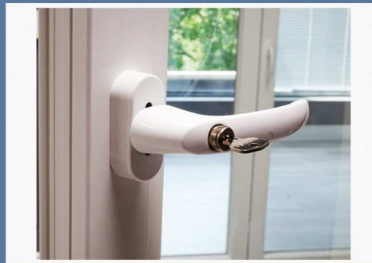


High reflection possibility

The acryl layer is permeable to sun rays, so the core white profile reflects a major part of sun rays penetrating the acryl layer. Owing to this feature, the coloured profile heats up similarly to a white one.



ACCESSORIES



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 high-quality 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.

Our environmental management



S 8000 (74 mm)



S 9000 (82.5 mm)



GECCO 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.



E X C E L L E N T Q U A L I T Y P E R F E C T S O L U T I O N