

Profile System S 8000 IQ – for pleasant homes



Diversity  
Comfort  
Classical  
Design  
Economical

# S 8000 IQ

NEW: **STV**® + **IKD**®

 **GEALAN**

# Do you want new windows?

This overview will assist you in finding quickly and easily the window that best satisfy your demands. Besides the basic characteristics of statics and thermal insulation, you can

choose your window depending on its aspect. Convince yourselves of the advantages of our profile systems.

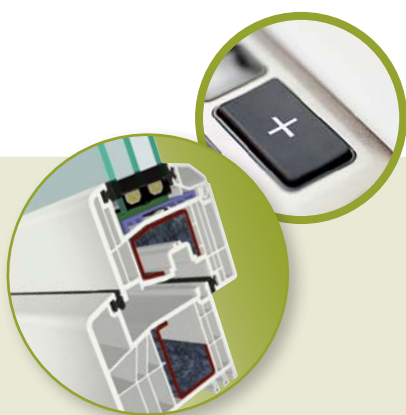
	5-chambers system	6-chambers system
Your requirements	<b>For bigger windows</b> <p>Do you want big windows, up to 2.20 m high, which could easily be taken for wooden ones, that convince through the colorful and extremely robust exterior surface? Then take into account our windows from the 5-chamber system.</p> 	<b>For a better insulation</b> <p>Do you think thermal insulation is essential but at the same time you wish to personalize the appearance of your home with natural colors wood décor or colorful windows? We recommend you our 6 chambers systems.</p> 
Section		
Construction depth	74 mm	74 mm
Thermal protection*	● ● ●	● ● ● ●
Statică	● ● ● ● ●	● ● ●
White PVC	✓	✓
acrylcolor	✓	✓
Wood decor	✓	✓
Mono-color folios	✓	✓
Design alternatives	✓	✓
GECCO ventilation devices	✓	✓
Optional, with recycled core		✓

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## S 8000 IQ plus system

### For special requirements

Do you have demanding requests? Then our S 8000 IQ Plus System with its exceptional thermal insulating properties will certainly convince you.



83 mm



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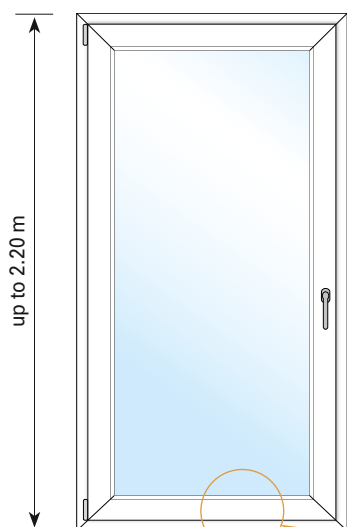
# Statics

## Large dimensions

In the development of S 8000 IQ system, special attention has been drawn to the stability of the profiles. Therefore, the main chamber is enlarged accordingly so as to allow the introduction of the gasket. The result is a high bending

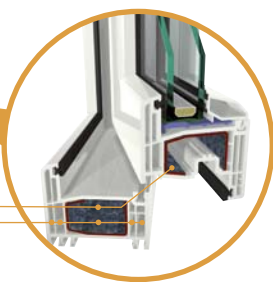
strength which leads to the increase of the profile stability. This enables us to create large windows and meet your large-windows demands.

## Exceptional statics for large window elements



- The maximum height of the window depends on the width of the window and on the total remaining surface.
- Strong forces act on the large-windows elements.
- The stable steel stiffeners ensure high resistance to bending and allow the construction of large-windows.

The large steel stiffeners from the main chambers ensure an exceptional stability



The 5-chambers profiles offer enhanced insulating properties.





# Design

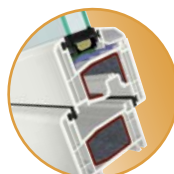
## Convincing aspect

The beauty of any window is defined by the profiles system. This is why the S 8000 IQ Plus System is designed to meet all optical expectations: large beam, various glazing bars and smooth and shiny exterior surfaces. S 8000 IQ System means esthetics and value - for windows with ageless style and elegance.

Moreover, there are various design alternatives from which the semi-displaced frame stands out through its special shape.



### Classical



5-chambers system  
Displaced frame

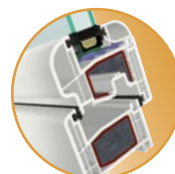


6-chambers system  
Displaced frame

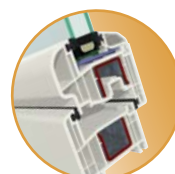


S 8000 IQ Plus System  
Displaced frame

### Design



5-chambers system  
Semi-displaced frame

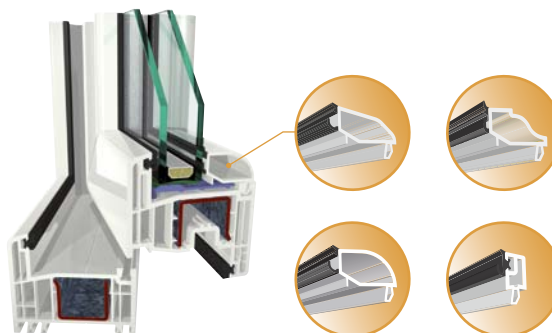


6-chambers system  
Semi-displaced frame



S 8000 IQ Plus System  
Semi-displaced frame

## The right glazing bar



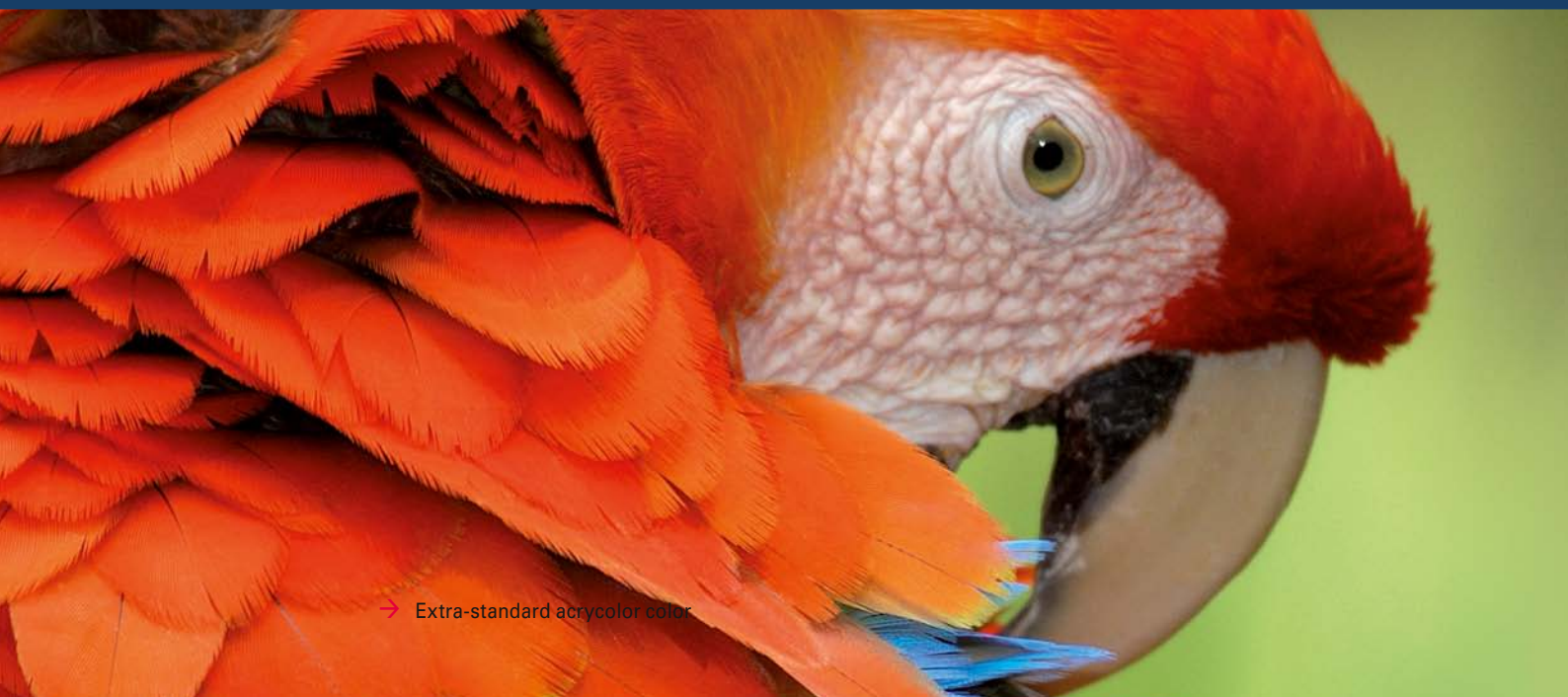
→ Either classical or modern, the glazing bar represents the ultimate result of our effort to create the perfect window. The wide range of alternatives meets any demand.

# acrycolor

## The fascination of color

In architecture, esthetics is the result of the perfect harmony between color, form and material – whether it is a patrimony building, a modern block or industrial prestigious buildings. The colorful acrycolor windows play a major role in the design of the façade adding special esthetic tones. In this way, the buildings catch the eye and acquire a unique business card. As component part of the façade, the windows are exposed to the sunbeams, bad weather

and the environment as well as mechanic influences. This is how we notice that not all colored profiles are alike. Acrycolor windows have inside the building white PVC profiles and in the exterior a layer of acrylic color glass, which makes them highly resistant to the weather influences such as sun, wind, cold and temperature fluctuations. Even at successive window changes, the color differences are imperceptible.



→ Extra-standard acrycolor color

### acrycolor tones



#### Standard acrycolor colors

1   Edelweiß / RAL 9010	3   Slate grey / RAL 7015	5   Brownish black / RAL 8022
2   Window grey / RAL 7040	4   Anthracite grey / RAL 7016	6   Sepia brown / RAL 8014



#### Colori extra-standard acrycolors

1   Beige-white / RAL 9001	3   Brownish red / RAL 3011	5   Silver / RAL 9007
2   Agate grey / RAL 7038	4   Dark green / RAL 6005	6   Aluminum white / RAL 9006

### Unique properties



It is not a varnish



Inseparably bonded to the base profile



It's approx. 0.5 mm thicker than any varnish of paint



Resistant against exfoliation and cracking



Scratch-proof and non-sensitive

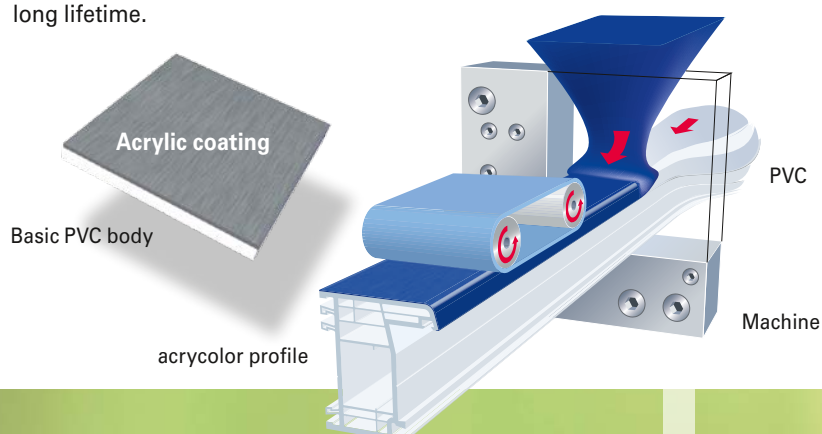


Easy care and low maintenance



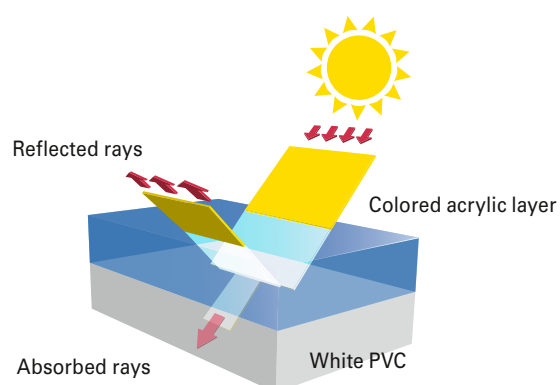
## acrycolor – tested quality

GEALAN has been producing colored acrycolor profile section for over 30 years using the co-extrusion method. Through this innovative technology, GEALAN sets higher standards, considerably differentiating from the conventional coloring procedure. Through co-extrusion the colored acrylic layer is inseparably bonded to the PVC profile. The outcome resides in distinctive color properties and long lifetime.



## High reflection

The exterior acrylic layer absorbs the infra-red rays and reflects the sunbeams. Thus, the heating of the profile is considerably reduced. The temperature fluctuations between the white and the colored profile are extremely small.



# acry|color





# Wood décor

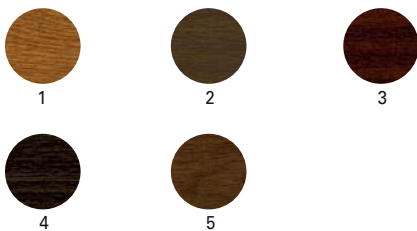
## Wood décor veneer with a natural touch

For all those who value a natural aspect without dispensing with the advantages of modern window technology, the wood décor PVC windows are the appropriate choice. Whether we are dealing with a renovation or with a new construction, GEALAN-windows stand out through their aspect and convincing functionality. We recommend them as a classical style element in the restoration of old buildings as well as for a landscape-oriented design.

The wood décor windows have all the modern PVC windows features, while conferring the decorative effect of the wood at the same time.



### Standard wood decors

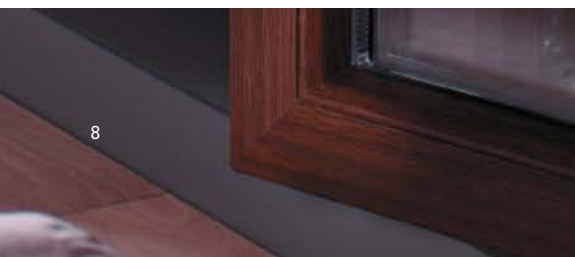


1	Golden Oak	4	Dark oak
2	Oak	5	Walnut
3	Mahon sapeli		

### Extra-standard veneers



1	Beige-white	6	Douglasie	11	Light oak
2	Silver-grey	7	Pine	12	Chocolate brown
3	Anthracite grey	8	Natural walnut	13	Siena Noce
4	Fir green	9	Chestnut	14	Siena Rosso
5	Blue steel	10	Cerise		





# Diversity

## Endless combinations

Thanks to the new covering technology, GEALAN can deliver virtually any combination of colors. Any variation of acrycolor, wood decor or monochrome veneer can be created, whether the profiles have numerous edges or complex rounding.

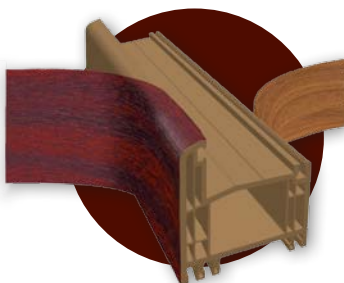


### Multiple decor options



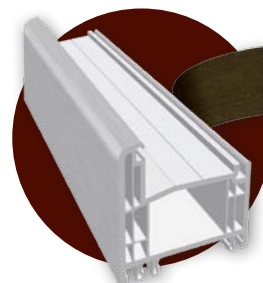
Quick change of the décor veneer and of the profile geometry in the production process. Endless combinations are possible.

### Combination options



Different outdoor and indoor decors. The exterior side of the window can be matched to the façade and the interior side can be chosen to be in line with the furniture style

### acrycolor + wood decor



You can benefit from the exceptional properties of acrycolor if you want wood decor veneer in the inside.

# Thermal insulation

## For a pleasant ambiance

Due to the increase of electricity price, private houses have to incur higher costs. In addition, legal provisions set more demanding requirements regarding the thermal insulation of the windows. Thanks to the 5-chambers system and the construction depth of 74 mm, S 8000 IQ Plus profile system already offers a better thermal insulation. In order to meet the most challenging

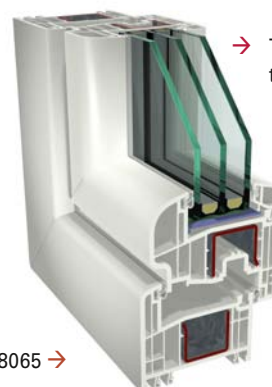
demands, this system comprises window frame and sash with multiple chambers. The U-values of these profile combinations with steel stiffeners (up to  $U_f = 1.2 \text{ W/m}^2/\text{K}$ ) are amongst the best for the PVC profile systems. Thermal insulation must never be optimized to the detriment of the statics and therefore we use adequate steel profiles.



## More chambers, less energy waste

The additional chambers in the window profiles efficiently reduce the energy loss and, together with the heat-insulating glass, make the climate in your home more comfortable.

- By all means, the final thermal permeability coefficient for the window depends on the glazing, since in most cases it represents the larger surface of the window. Your window supplier would be pleased to advise you in this respect.



→ Triple glass for an enhanced thermal insulation

→ More information on glazing, see page 12

→ 6-chambers frame and sash profiles

For example: the profile combination 8003/8065 →

# Noise protection

Enjoy your quiet moments

Too much noise damages your health. That's why noise protection has become an important health aspect. The location of the building and the level of outer noise are essential for the requirements concerning noise insulation for modern windows.

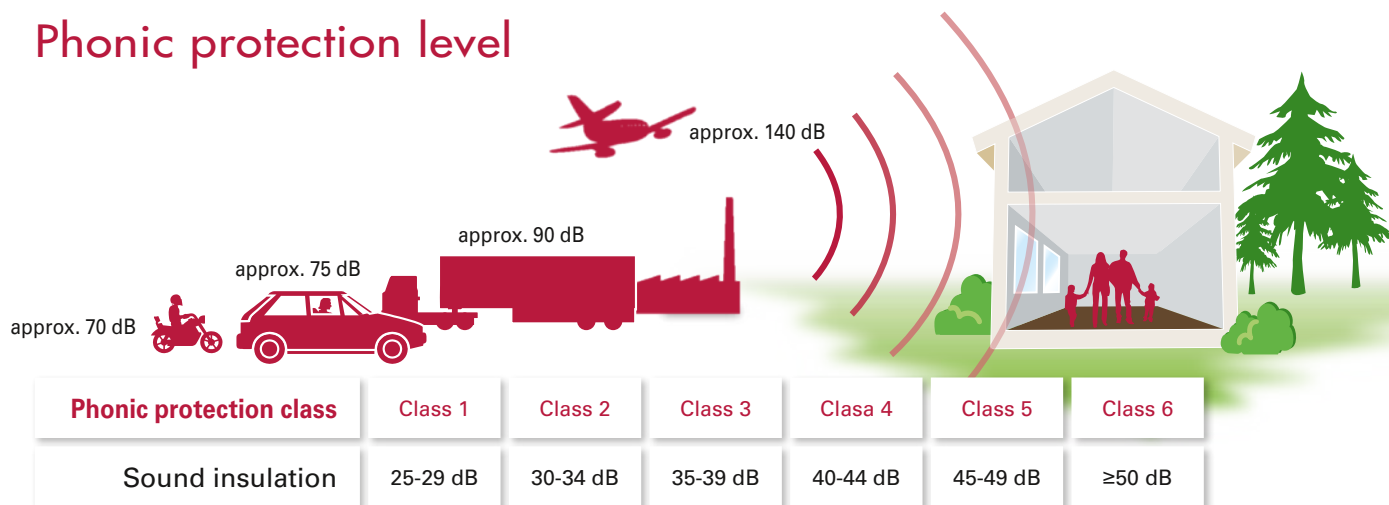


## Avoid noise efficiently

According to the degree of noise insulation, windows are divided in various classes. The fundamental rating for this classification is the assessed noise reduction coefficient.

The noise-insulating windows can be tailored to any situation, depending on the noise level. For the rooms in which high levels of exterior noise are registered, we recommend windows with high noise reduction ratings (high class of phonic protection). The S 8000 IQ system reduces the noise with up to 47 dB.

## Phonic protection level





# Security

Safe is good

To feel good in your own home means to feel safe. GEALAN offers, through its S 8000 IQ system exceptional anti-break in protection. In the construction of the 5-chambers profiles, we have paid special

attention to the use of large steel stiffeners. The construction depth of 74 mm of the profile, along with the use of secure locking mechanisms represents a convincing argument regarding safety.



## S 8000 IQ anti-break in protection



### Resistance class 1 RC1

- Basic protection against thieves
- For ground floor and balcony windows accessible from the outside
- Against break-ins through violent effraction

### Resistance class 2 RC2

- Basic protection against thieves
- For ground floor and basement which are not accessible from the outside
- Against effraction through simple tools such as screwdrivers, tongs

# Hardware

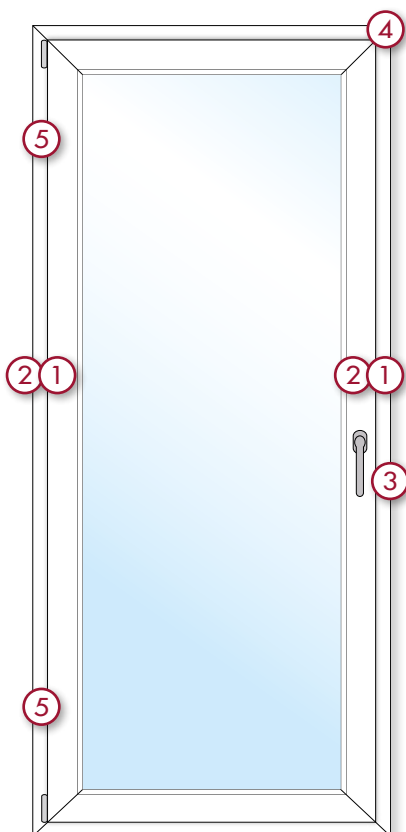
## Unmistakably the right choice

The high-quality hardware offer an excellent stability level, ensured through a well-designed construction that focuses on the optimal load distribution on all fixing points. The locking mechanisms act on the entire frame of the window and are provided with safety devices so as to avoid incorrect handlings, while ensuring an easy operation and total security of the window.



## We promote quality

The fittings used in the GEALAN windows are RAL certified and provide high-quality sealing. GEALAN requires its authorized fittings suppliers to guarantee the well-functioning for over 15.000 on-off cycles. At the same time, we promote the innovating accessories that considerably improve the microclimate and the safety of your home. Therefore, mushroom closings can be optionally mounted, provided with a standard anti-burglar plate as well as a key-locking handle.



### 1 Standard plates with break-in protection

The plates with break-in protection are made of steel and can be used both from the left and right side.



### 2 Mushroom bolt

The mushroom bolts are made of stainless steel and considerably increase the safety, making impossible for the burglars to remove the frame.



### 3 Protection system against improper operation

The protection system against erroneous handling prevents the erroneous handling of the window in rotated or tilted position and can be easily mounted later on.



### 4 Night-time ventilation

The ventilation element allows comfortable ventilation in multiple intermediary positions.



### 5 Hinge caps

Upper hinge caps, hinges for tilting mechanism, turning hinges and corner hinges in various colors, fitted for any décor.

# STV®

## Enhanced properties

GEALAN-STV® is an innovative technique that allows the dry welding of the window, easing the mounting process. The new STV® technique allows us to create larger, safer windows with improved thermal insulation. The welding of the glazing and of the frame improves the anti-break in resistance, making it more difficult to remove the elements.

In the construction of large white elements with the new STV® technique (windows of 1.50 x 1.50 m and balcony doors of 1.10 x 2.30 m) we no longer need steel stiffeners. Thus, the U-value is considerably improved (by up to 0,2 W/m²K depending on the profile combination).

## Impressing advantages:

- Improved statics for the large window elements
- More pleasant aspect due to the disappearance of the window gasket
- Lighter frame
- Enhanced functionality
- Improved thermal insulation (in combination with IKD®)

# IKD®

## Better thermal insulation

In the space usually intended for the cold steel, with the integrated intensive insulation of the profile – IKD®, the gasket chamber from the frame is filled with heat-insulating foam made of a special material. Due to this technique, we obtain exceptional thermal insulation values. IKD® does not only help you save electricity costs. Due to the hardened foam core and the full bonding of the glass on the entire sash margins, the IKD® profile delivered with STV® makes it more difficult to remove the window elements.

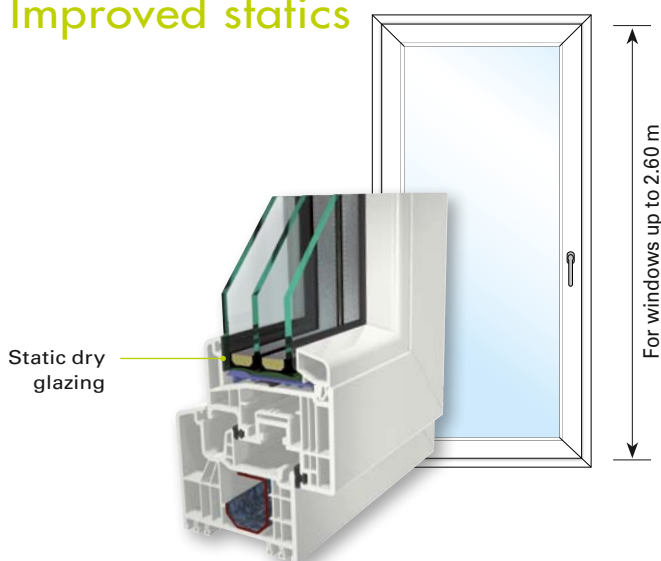
**Improved thermal insulation obtained by combining the STV® + IKD® advantages = U<sub>f</sub> Values <0.95 W/m²K)**



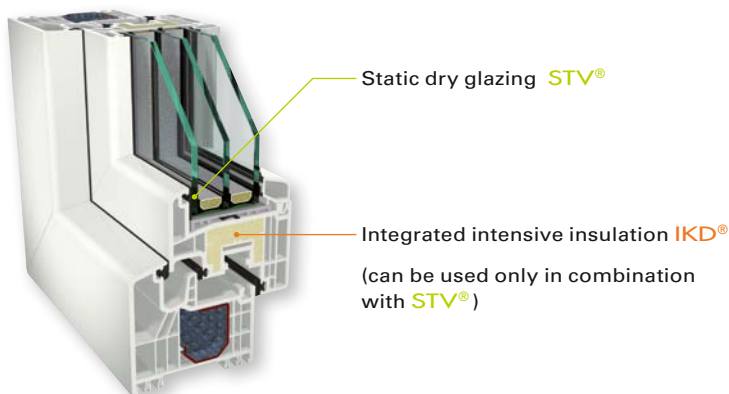
## For environmental protection

The windows equipped with STV® and IKD® can be recycled.

## Improved statics



## Optimal insulation



More information at:

<http://stv.gealan.ro> sau <http://ikd.gealan.ro>





Test the **STV<sup>®</sup>** and **IKD<sup>®</sup>** efficiency yourselves!

U <sub>g</sub>	Profile combination	Apparent width	U <sub>i</sub> with steel	U <sub>i</sub> with STV <sup>®</sup>	U <sub>i</sub> with IKD <sup>®</sup>	U <sub>w</sub> with steel	U <sub>w</sub> with STV <sup>®</sup>	U <sub>w</sub> with IKD <sup>®</sup>
0,9	8002/8099	116 cm	1,30	1,20	1,10	1,12	1,09	1,05
0,6	8002/8096	116 cm	1,20	1,10	1,00	0,88	0,85	0,82
0,9	5001/8096	116 cm	1,20	1,10	1,00	1,09	1,06	1,03
0,6	5001/8068	116 cm	1,30	1,20	1,00	0,92	0,88	0,82
0,6	5001/8065	116 cm	1,20	1,20	1,10	0,88	0,88	0,85
0,9	8002/8065	131 cm	1,20	1,20	1,10	1,09	1,09	1,06
0,6	8002/8008	131 cm	1,10	1,12	1,00	0,87	0,87	0,83

All U-values are expressed in W/m²K, computed with triple glazing and Thermix TX.N spacer



# GECCO

## Flip with an IQ

A regulated exchange of fresh air is a prerequisite for a pleasant microclimate of the room and for an enhanced living comfort. That is why the automatic ventilation system **GECCO** (**GEALAN CLIMA CONTROL**) is available for all types of windows. It successfully prevents the unpleasant air currents and mould formation in the window sill. The normal windows are thus turned into ventilation windows for a pleasant climate.

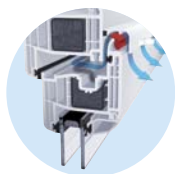
In the normal position, the flap is opened – the air can freely circulate. In high winds, the flap automatically closes the ventilation channel and prevents the unpleasant air currents. And GECCO does this independently. GECCO ventilation system complies with all technical criteria. The tests proved that this type of ventilation do not trigger visible heat losses.

## GECCO advantages:

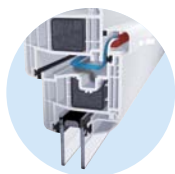
- optimal exchange of air at normal air pressures
- minimum energy waste
- permanent basic ventilation
- patented, fully automatic adjustment of the ventilation
- no draught even in high winds
- no improper operation possible due to the automatic drive
- high thermal and sound insulation
- no whizz caused by draught
- competitive prices
- no mould

## GECCO 3

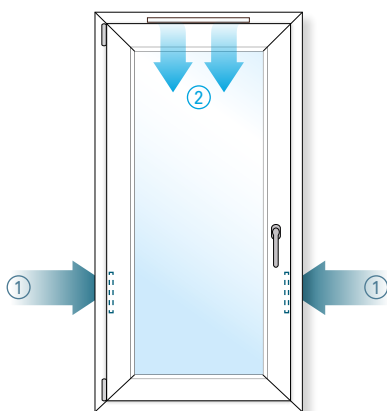
GECCO 3 has been designed for the sealing systems S 3000 and S 8000 IQ. It is visible located on the upper channel of the frames. GECCO 3 can be integrated not only in new windows but also in already mounted ones. The intake of air enters in the fold through the ventilation gasket ① and gets into the room through GECCO 3 ②.



GECCO 3 opened  
5.86 m<sup>3</sup>/h at 10 Pa



GECCO 3 closed



## GECCO 4

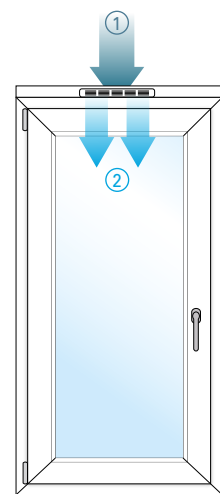
GECCO 4 is the most recent version of the system. It can be used in all GEALAN systems with a construction depth ranging between 62 and 90 mm and offer additional advantages such as the pollen and dust filter and insect protection. The fresh air is introduced through GECCO 4 ① and gets directly in the room ②. Additionally for GECCO 4 we offer a rain protection accessory.



GECCO 4 opened  
10.6 m<sup>3</sup>/h at 10 Pa



GECCO 4 closed







# Air Watch

## GECCO 4 closed

The right ventilation moment couldn't have been clearly identified until now. In wet rooms, such as the kitchen or the bathroom, mould problems usual occur in spite of the basic ventilation (for instance with GECCO). Such problems are over! The humidity metering indicator GEALAN Air Watch shall sharply indicate when you have to introduce fresh air in your room.

The small device is safe and easy to operate. It is simply glued on the frame and indicates whether the air humidity in the room is adequate or requires ventilation.

- Easy and quick assembly on the window frame
- Indicates whether the room humidity is within normal values



## microclimate

You feel good in your home and consciously benefit from conform: the pleasant microclimate of the room has a decisive role. It's right in the wet rooms such as the kitchen and the bathroom that the controlled exchange of air is indispensable. A too high humidity of the air may ruin the microclimate of the room and favors the mould formation.

Although the licensed GECCO ventilation system ensures the adjusted primary ventilation, we cannot do without regulation ventilation. The air in the room must be completely periodically changed.



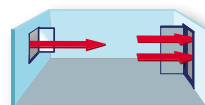
### Ventilation through the fold

Provides only a limited exchange of air.



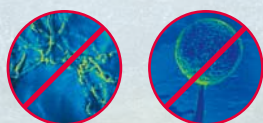
### Ventilation through wide opened windows

When we fully open the window, the frame is completely opened and the air shall be changed within 4 - 10 minutes.



### Combined ventilation

Combined ventilation minimize the energy losses due to the quick exchange of air.



Mould (at electronic microscope) stands no change with GECCO.



# S 8000 IQ plus

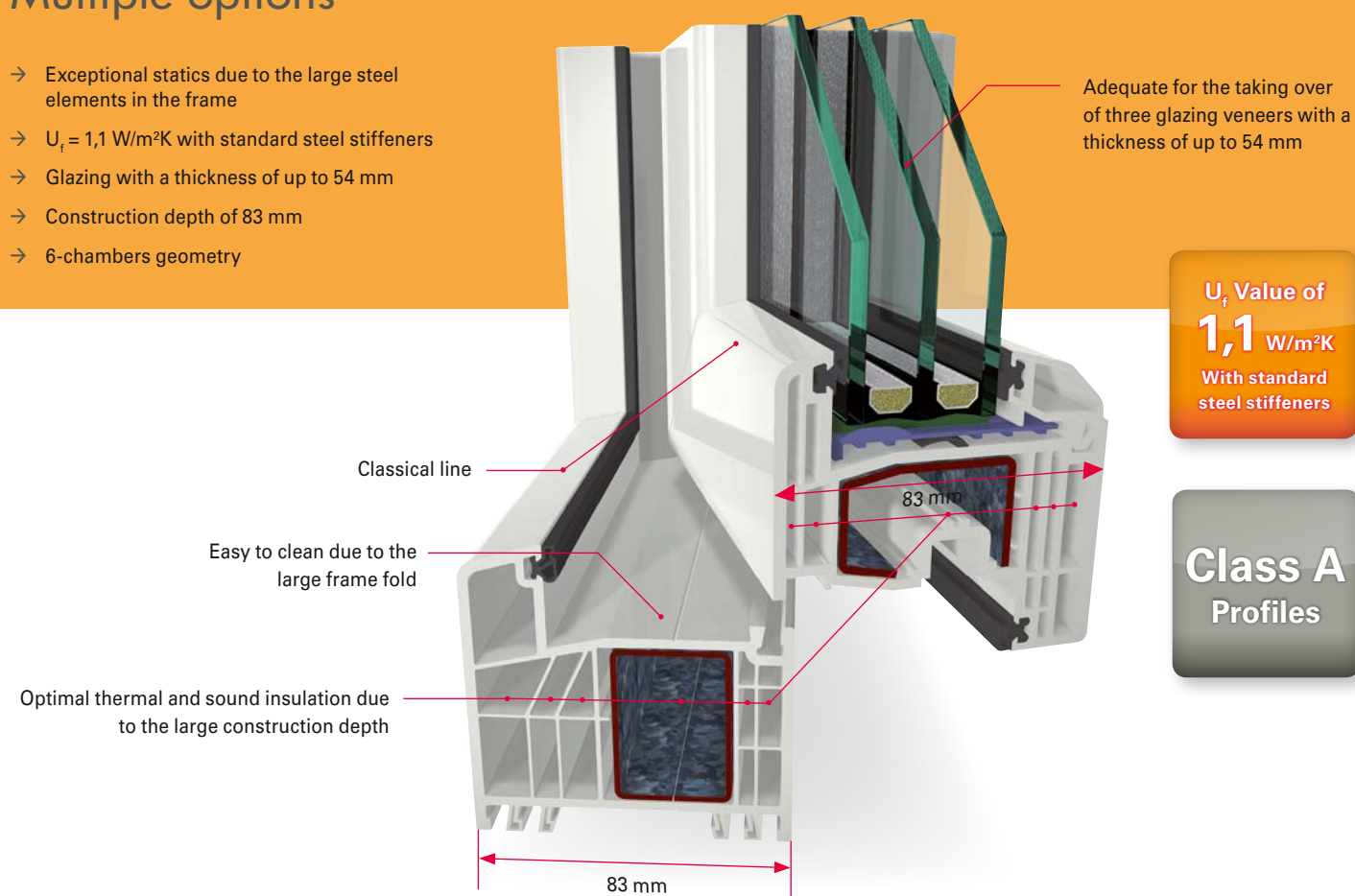
## High compatibility of the systems

S 8000 IQ Plus System is unique as regards its versatility properties. Moreover, it is fully integrated in the S 8000 IQ System, allowing you to combine the sashes and the frames of both systems as you wish. This leads to a high flexibility of the system that meets all the requirements of modern windows designs. With the profiles in the S 8000 IQ Plus system, we

can create any type of windows. The large window elements and the optimal thermal insulation are not incompatible. The S 8000 IQ Plus System, with a construction depth of 83 mm has indeed exceptional properties. Six chambers for an improved insulation and large steel stiffeners for large elements constructions.

## Multiple options

- Exceptional statics due to the large steel elements in the frame
- $U_f = 1,1 \text{ W/m}^2\text{K}$  with standard steel stiffeners
- Glazing with a thickness of up to 54 mm
- Construction depth of 83 mm
- 6-chambers geometry



$U_f$  Value of  
**1,1**  $\text{W/m}^2\text{K}$   
With standard  
steel stiffeners

**Class A**  
Profiles

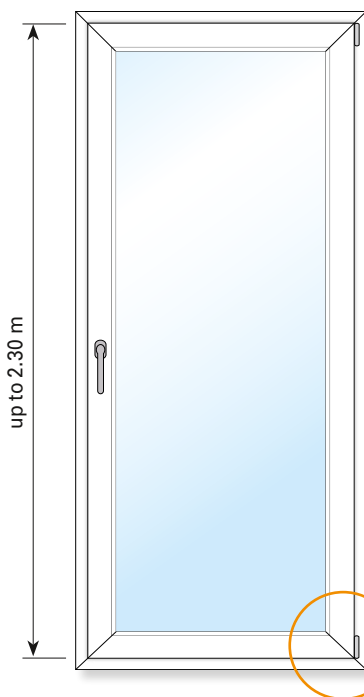
## Endless combinations

Which combination suits you best? The frames from the S 8000 IQ Plus System of 83 mm or the S 8000 IQ of 74 mm? The standard frame with a construction depth of 83 mm or of 74 mm?

● = compatible	S 8000 IQ frame	S 8000 IQ plus frame
S 8000 IQ sash	●	●
S 8000 IQ Plus sash	●	●



## Statics and thermal insulation in perfect harmony

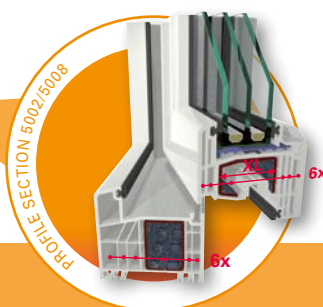


- The maximum height of the window elements depends on the window width and the total resulted surface
- For the large windows, strong forces act on the window elements
- The stable steel stiffeners ensure an enhanced bending resistance and enable the construction of large windows

## Minimum energy loss

The additional chambers in the profiles reduce the energy losses and, together with the heat-insulating glazing, ensure a pleasant microclimate.

The thermal protection level of the window depends to a high extent on the glazing, because it represents a large part of the window surface. Thus, when choosing a glass package with  $U_g = 0.5 \text{ W/m}^2\text{K}$  you can reach  $U_w$  values of  $0.79 \text{ W/m}^2\text{K}$ . For more details, contact your GEALAN partner.



The large steel stiffeners in the main chambers ensure an exceptional stability.

6-chambers sash and frame profiles for reduced energy losses.

# Rolls

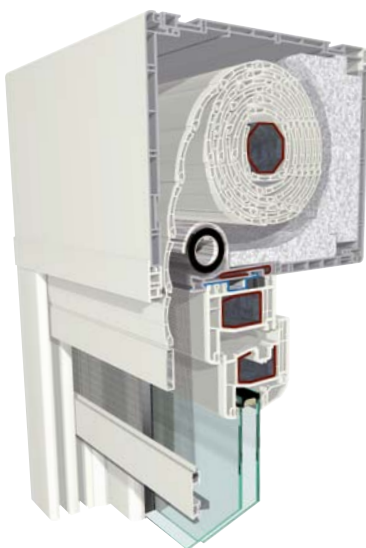
## Efficient protection against sun rays and indiscreet glimpses

The exterior GEALAN rolls satisfy all demands related to the comfort of your home. They protect efficiently against solar radiations and strong light, indiscrete glimpses and unwelcome guests. During the cold winter days, the heat remains inside,

which offers further comfort and safety. The material is easy to maintain, resistant to harsh weather and light and offers a pleasant long-lasting look.



## A system endowed with useful details



The exterior GEALAN rolls are easy to assemble. The windows and the rolling boxes are extremely harmonious and tailored for each and every assembly destination – whether we are dealing with a restoration or a new building. In addition to that, GEALAN rolling boxes, deliverable in the 195 mm size, fulfill all thermal insulation requirements, while contributing to the reduction of the heating costs.

- n different sizes and versions
- operated manually, electrically or by remote control
- cap for the application of the plastering, adaptable for outdoors and indoors
- integrated net against insects, which can be added as separate item
- can be ordered in white, acrylcolor or décor



The roll boxes can be operated electrically or by hand.





# Shutters

## Modern technique with rustic style

GEALAN shutter system confer facades an attractive style. Due to the wide range of forms and colors, the shutters optically blend into any architecture and give it an individual flair. In addition, they protect against wind and weather, as well as against sun and unwanted glimpses. The GEALAN shutter systems are

available with either fixed or mobile slats. With mobile slats, the admission of light into the room can be individually set. If, instead, you want to block the light, close the fixed version with filler profiles.



## Easy to maintain

GEALAN PVC profile system for shutters offers all the benefits of this raw material resistant to wear and tear and harsh weather. The efficient light and UV-resistance are just a few. The system also has a smooth and easy to clean surface, which considerably makes cleaning easier. The stability demands are utterly high, especially as regards the colored shutters in areas with high solar exposures. Thus is why GEALAN introduced thicker profiles with steel support.

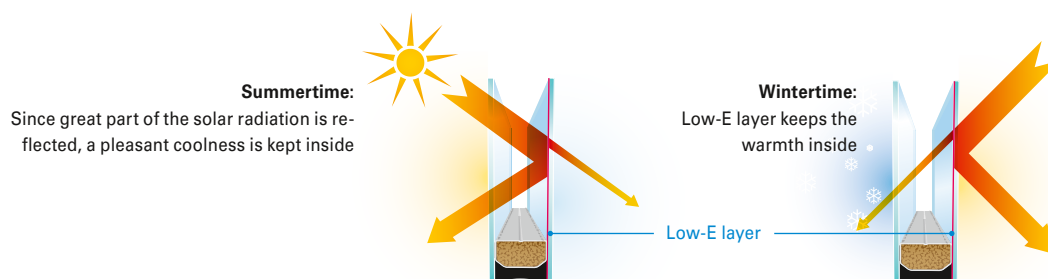
- with fixed or mobile slats
- easy operation
- made of PVC easy to maintain
- white or with décor veneer
- high stability due to the steel reinforcements and thick walls

# Glazing

## For optimal perspectives

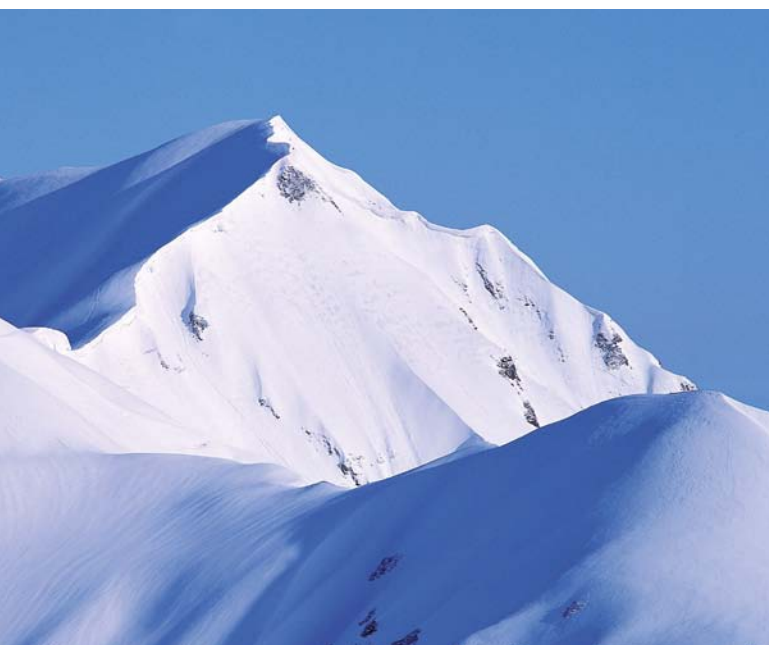
The thermal insulating glass is an essential component of modern windows, representing the larger part of the window surface. Thus, we keep the heat inside and the cold outside.

With the special glazing beads, you avoid energy losses, reduce the heating costs and actively contribute to environmental protection. In addition, the thermal insulating glass protects you against noise and unwanted guests. The different types of glass can be combined to fit your needs and form a multi-functional glass that reunites multiple advantages: thermal insulation, phonic protection, decorative glass and improvement of the safety and security.



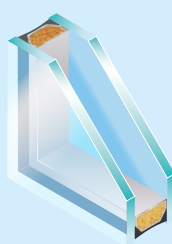
## Low-E Layer

Low-E stands for Low-Emission. In the fabrication process of the thermal-insulating glass with solar control this coating is applied on the glass sheet as a very thin layer of metallic oxide. The Low-E coated glass allows the short rays to enter and reflects the infrared rays. In this way, the  $U_g$  value of a regular window is reduced by half.

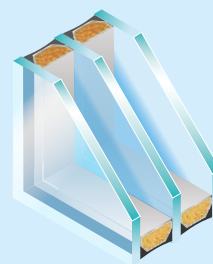


## Thermal insulation

Taking into account the continuous increase of the energy prices, we recommend you to take into account, whenever you purchase new windows, the optimal properties of thermal insulation. For this purpose, an extremely important role is played by the type of glass, since it represents the larger part of the total surface of the window.



**Double glazing**  
 $U_g = \text{up to } 1,1 \text{ W/m}^2\text{K}$



**Triple glazing**  
 $U_g = \text{up to } 0,5 \text{ W/m}^2\text{K}$

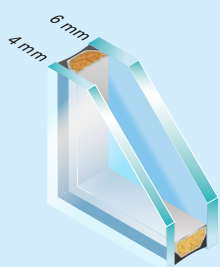


## Solar control glass

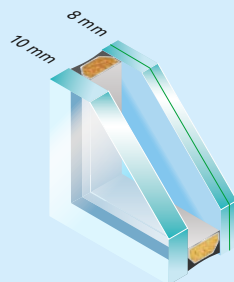
- considerably reduced the heating costs
- no cold areas near the glazing
- no condensation on the interior window
- large glazing with optimum thermal insulation features
- optimum relation between light and energy transmission guarantees high transparency combined with efficient solar protection
- neutral aspect
- can be associated with other types of glass so as to integrate other functions as well: phonic protection, improvement of safety and security, décor
- actively contributes to the environment protection by reducing the CO<sub>2</sub> emissions

## Phonic protection

The acoustic glass with a high level of phonic protection acts as a barrier for sound and eliminates the so-disturbing and harmful effects of urban noises, especially in buildings located near high-traffic roads.



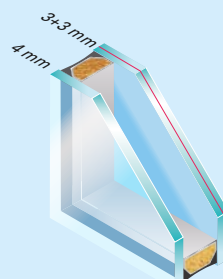
**36 dB**  
 $U_g = 1,1 \text{ W/m}^2\text{K}$



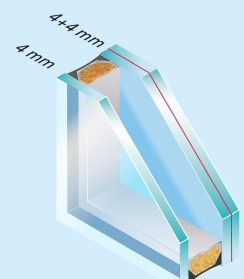
**45 dB**  
 $U_g = 1,1 \text{ W/m}^2\text{K}$

## Safety

For an enhanced safety, you can choose an anti-burglar window. This is performed by associating two or more glass plates united through one or more plastic films. Upon breakage or impact, these films retain the glass fragments, protecting your home in case burglars try to break in.



$U_g = 1,1 \text{ W/m}^2\text{K}$



$U_g = 1,1 \text{ W/m}^2\text{K}$





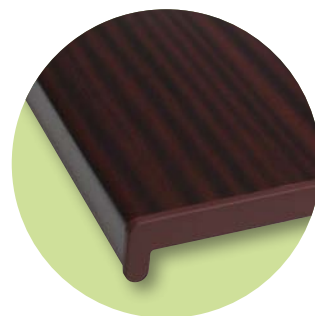
## Interior window sills



PVC, white



PVC, marble aspect



PVC, wood decor



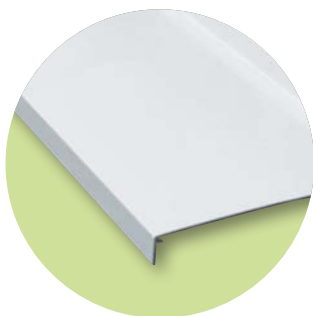
## Window sills

### For an individualized look

The secret of a successful design resides in the finishing, accessories and small details. The window sills have the role of protecting the facades against bad weather and infiltrations which may create damages in time. The assembly of an appropriate exterior sill is a mandatory element in the insulation system of a building. Apart from this functional role, the window sills – both the interior and exterior ones – play a decorative role, emphasizing the finishing and the design. Therefore, GEALAN offers window sills fitted for any tastes and any living style: from marble imitations to beautiful wood décor shades. Due to the exterior laminated surface, they are resistant to moisture, scratches, high temperatures and UV radiations and are easy to maintain.



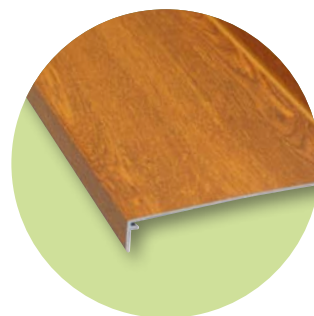
## Exterior window sills



Aluminium, white



Aluminium, brown



Aluminium, wood decor







## PVC front doors

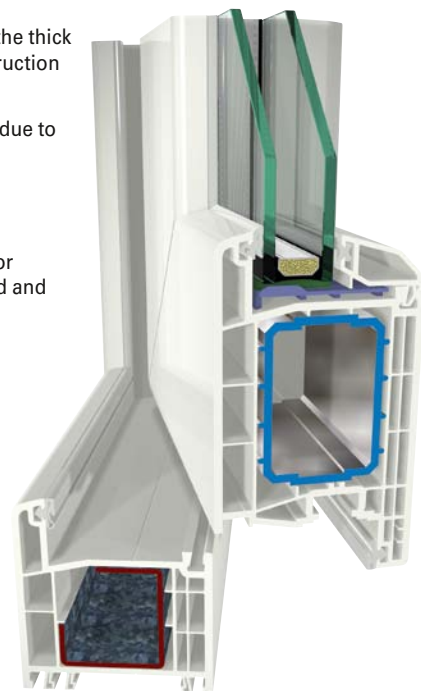
The front door is the central creative point of each facade, representing the business card of the house. The doors included in the S 8000 IQ profile systems are architectural design elements and have a decisive impact on the façade aspect due to their size, shape and exterior distribution. The fine rounding and the oblique geometry of the profile enhance the classical line and offer a modern and attractive style.

- Outstanding stability due to the thick gaskets and the 74mm construction depth.
- Improved thermal insulation due to the 4-chambers geometry.
- Downfall resistance class 7A according to EN 12208
- The geometry and the exterior surface can be easily cleaned and maintained.



### Door sills solutions

- Resistant, due to the aluminium sill cap
- Enhanced sealing due to multiple gasket layers and the integrated sealing block
- Downfall resistance, water-proof
- Exceptional thermal insulation



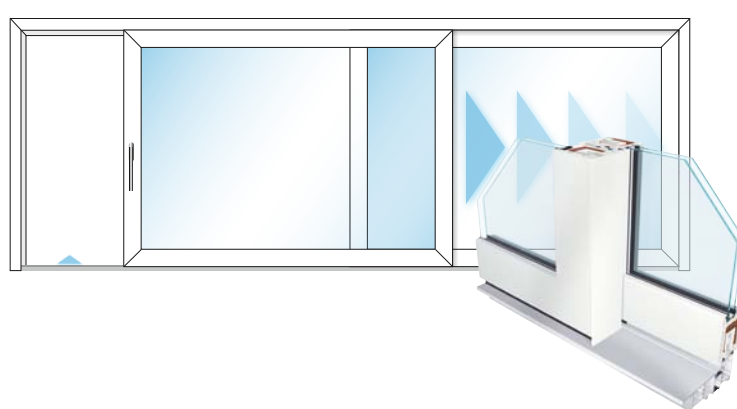
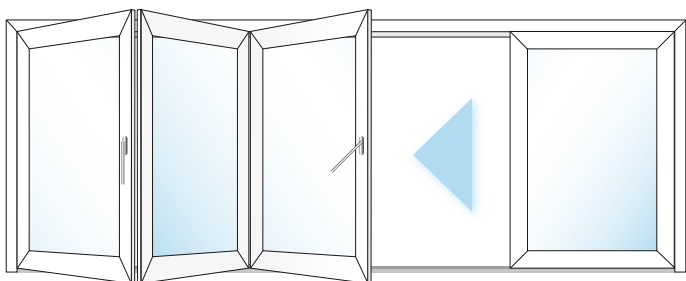


# PVC doors

## Wishes come true

Nothing is impossible. This principle guided us in the performance of S 8000 IQ System which offers you adequate sill profiles and solutions which fit any function or construction

situation. The special S 8000 IQ geometry stands out among any front door. Due to the large steel stiffeners, the front doors are now, more than ever, very light and extremely stable.



## Harmonic door

- Adequate for large doors in spaces which wouldn't allow the opening of a classical door
- Ideal solution for ample opening balconies
- Very good thermal insulation
- Resistant to bad weather
- Available in white, as well as in many versions of wood decor and acrycolor

## Parallel lifting sliding door

- Large glazed surfaces
- Air and rain sealing
- Improved stability due to the large steel stiffeners in the frame and sash
- Various presentation versions, wide range of colors and decors.
- Easy operation
- Motor operation possibility

# Complete outfitting

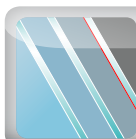
## An extra package

Each part of a home is an extension of our personality and life style. Since windows project our need of light, comfort and safety, we are striving to combine both beauty and functionality. Not all PVC windows are the same. With GEALAN PVC windows

you will certainly stand out not only as regards their aspect. The geometry of the profiles is designed in such a way as to satisfy the most challenging demands of thermal, phonic and anti-burglary protection.

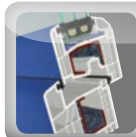
## The perfect window

The performances of a window are determined not only by the profiles or the glass, but also by a series of other elements: gasket set, closing systems. A very important role is played by the complementary accessories – which are the small details that improve your living comfort. Such a fully equipped window is, according to GEALAN specialists, the perfect window.



### Triple insulation glaze

Low-E coating ensures coolness in summer and pleasant warmth in winter.



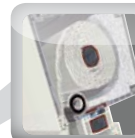
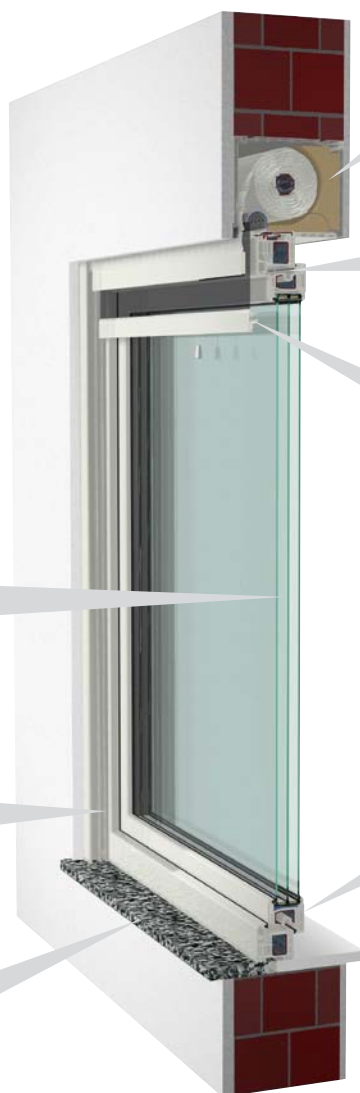
### In acrycolor version

The acrycolor colored windows are extremely resistant and maintain their color in time.



### Sills

Different versions fit for any window.



### RAE plus

Exterior rolls, optionally with remote control operation.



### GECCO 4 Flap with an IQ

For a controlled exchange of air.



### Net against insects

The integrated net against insects is a useful accessory against flies and mosquitoes.



### S 8000 IQ Plus System

6-chamber geometry with a construction depth of 83 mm.

U<sub>w</sub>-Value of  
**1,1** W/m<sup>2</sup>K  
With standard  
steel stiffener

**Class A**  
Profiles

# Language forms

## Always the right window

GEALAN window profiles allow the owner of the house to enjoy its unlimited creativity. Apart from their functionality, they have the great advantage of allowing the owner to create almost any window shape.

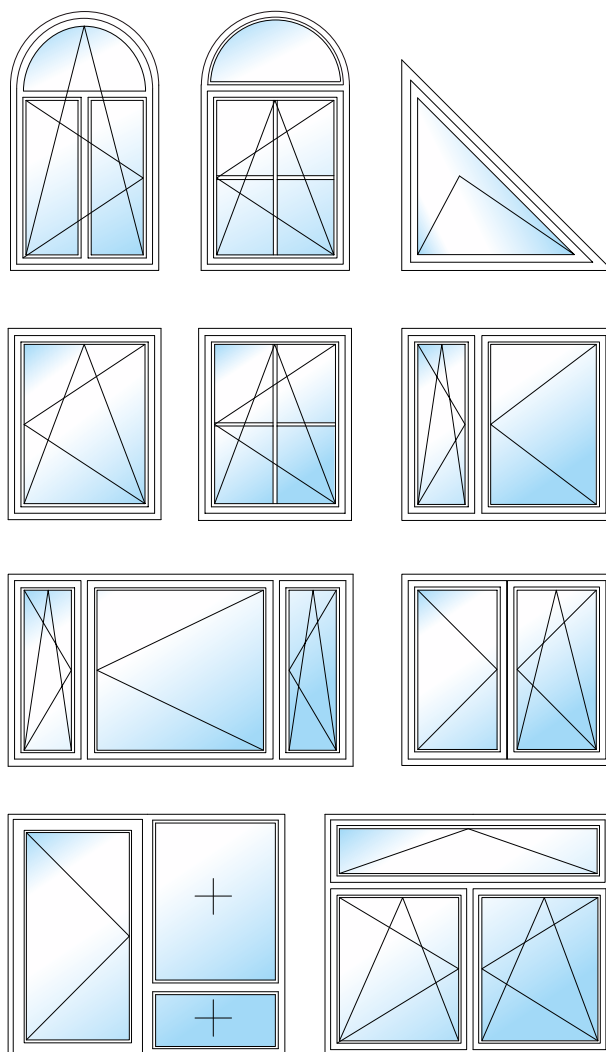


## Enjoy our diversity

It has never been easier to renovate or modernize old buildings. The strict criteria that apply to the conservation of historical monuments are no longer an issue, because GEALAN windows are made in almost all sizes, shapes and colors and can be opened in any way.



## Shapes of windows



These images are but a small part of our wide range of shapes that can be performed with the S 8000 IQ system.



# Assembly of the windows

## Guarantee for a problem-free operation

The thermal-insulation feature of the windows is given not only by the glass but also by a series of other elements: profiles, gasket set, closing systems, assembly. A window which is incorrectly mounted reduces by half the insulation and sealing performances.

Therefore, we recommend you to follow these preliminary steps in choosing your windows:

An authorized partner complies with the technical execution and assembly norms and uses only the devices recommended by GEALAN, ensuring the high-quality of the delivered products.

Appeal to producers that apply on windows the CE marking and which specify the performance characteristics of the window regarding resistance and thermal insulation.

Conclude sale contracts in order to benefit from the guarantee and post-guarantee services. Inform yourselves about the installment system.

Allow the performance of measurements, since the assembly of the window takes into account a series of specific sizes.

The assembly must be duly executed by a specialized company. Don't leave yourselves fooled by temptations such as: "the next-door neighbor used to be a carpenter", "the workman knows it all". Don't try to assemble them on your own, as you will need special tools and a series of specific know-how, necessary for a proper assembly. Don't superpose the replacement of the windows with interior design works such as sandstone/faïence mounting, interior paintings since all these favor the formation of condensation. First allow the elimination of the moisture from the walls triggered by such fit-up works and then have your windows assembled with thermal insulation glass.



Applied directly on the window or attached to the accompanying documents, the CE marking compels the producer to declare the following performance characteristics targeting the health and security of the carpentry beneficiary: water sealing, air permeability, and resistance to wind charges, resistance of the safety devices, harmful substances, thermal diffusion and acoustic performance. The reference values for S 8000 GEALAN system are presented in table at page 32.

## Assembly steps:

1. Fix the windows in the walls with screws and special fixing items, which shall vary depending on the type of material of the wall (brick, concrete, BCA);
2. Adjust the closing mechanisms to ensure the functionality of the windows.
3. Seal with polyurethane foam the space between the frame of the window and the wall. The foam is used for insulation purposes, not for fixing. The filling of a space larger than 10 mm with sealing foam is forbidden. In this case, compensation profiles are used.
4. The windows shall remain closed for at least two hours after the foam insulation.
5. It is compulsory to perform reparation works of the walls around the interior and exterior windows and doors; such works shall be carried out after at least 48 hours from the foam sealing. After the walls have been repaired, remove the protection foil.
6. The excess of foam shall not be removed before the reparation of the wall, since it may lose its waterproof feature.
7. In the exterior, hydro-insulation materials must be used (not gypsum)
8. The drainage slots in the exterior sash must not be covered.

# Cleaning and maintenance of the windows

## For a long lifetime of your windows

GEALAN PVC windows do away with the expensive maintenance and painting works. Thus, you can save money and time to enjoy your free weekends with your family. Just a few simple maintenance measures are necessary to keep the value and the beauty of your window for a long time.



## Cleaning instructions

The window frames made of PVS do not need maintenance and are easy to clean. In order to constantly maintain a perfect surface, we advice you to follow the procedure indicated below:

In order to clean the window frames, you can use almost all regular detergents, diluted in water according to the producers' instructions.

The gaskets should not come in direct contact with concentrated cleansers or with oily substances. It is likewise important not to spray the gaskets too much with window cleaners. The excess of liquid from the frames must be immediately removed with clean water. Do not use abrasive substances or wire sponges to clean the windows. Never use chemical or organic diluents or nay type of acids, in order to avoid the risk of dissolving the surfaces. The use of alcohol on colored surfaces is forbidden.



GEALAN has created a special cleanser for windows, capable of removing even thick layers of dirt without affecting the surface of the window. You can order this special cleanser for PVC windows from your window supplier

## Maintenance instructions

The purpose of the maintenance works is to maintain an optimal and long-term functionality of the windows. Therefore, GEALAN recommends you to perform on a yearly basis the following maintenance operations:



1

Check the proper operation and oil all mobile parts of the ironware with a drop of oil for sewing machines.



2

Make sure the gaskets between the frame and the sash are airtight. Ask the specialists to replace the damaged gaskets.



3

Check the drainage channels and free from dirt, if necessary.



4

Make sure the screws of the hardware are properly fixed.

You may conclude with your window supplier a maintenance contract. The specialists shall perform a detailed and periodic check-up of your window!

# S 8000 IQ System Certificate

Verified and found compliant:

Criteria	Result	Observations
Resistance and tightness tests proper to CE marking	Air permeability according to EN 12207 up to 4 <sup>th</sup> class Downfall resistance according to EN 12208 up to 9A class Wind resistance as per EN 12210 up to C5 class	Tested with different sash/frame/glass combinations
Sealing tests for the windows with ventilation mechanisms	Air permeability according to EN 12207 up to 4 <sup>th</sup> class Downfall resistance according to EN 12208 up to 9A class	Window with GECCO
Phonic insulation	Noise reduction with 34 – 47 dB.	Tested with different sash/frame/glass combinations
Phonic insulation for the windows with ventilation mechanisms	Noise reduction with 33 – 44 dB.	Window with GECCO
Anti-break in protection	Resistance class 2	Tested with different sash/frame/glass combinations
Thermal insulation	U <sub>f</sub> values – heat transfer coefficient of the frame up to 1,1 W/m <sup>2</sup> k (depending on the profile combination and the used stiffness).	Tested through Hotbox method for the 5002/5008 combination

## GEALAN partnership for environment protection

### Commitment to recycling

Even before the legislation on environment protection came into effect, GEALAN offered its partners recycling management as “GEALAN Eco Agreement”: the profile manufacturers and specialist window manufactures agree to reprocess old PVC windows along with the profile section residue that accumulates in the production process. The goal is to introduce the materials in a closed recycling

system since PVC – the raw material – is obtained from the natural raw materials such as petrol or natural gases and salt, which far too valuable to end up in a dump or waste incinerator. Because it is 100% recyclable, PVC is ideally suited for reprocessing. Even the old PVC windows can be granulated and then reprocessed, PVC being a material that offer multiple recycling possibilities.



Our commitment for environmental protection



B.A.U.M.

