

LWS & I
WINDOWS AND DOORS

UPVC WINDOWS
COLLECTION



HEAT TRANSFER COEFFICIENT

U_w [W/m ² K]	With a spacerbar made of aluminium($\psi=0,07$ W/m ² K)								
	U_g U_f	1,1	1,0	0,9	0,8	0,7	0,6	0,5	0,4
IDEAL 4000	1,4	1,4	1,3	1,2	1,2	1,1	1,0	-	-
IDEAL 4000 NEW	1,3	1,3	1,3	1,2	1,1	1,1	1,0	-	-
IDEAL 5000	1,2	1,3	1,2	1,2	1,1	1,0	0,97	-	-
IDEAL 7000 NEW	1,1	1,3	1,2	1,1	1,1	1,0	0,93	0,87	0,80
IDEAL 8000	1,0	1,2	1,2	1,1	1,0	0,97	0,90	0,83	0,77
ENERGETO 8000	0,94	1,2	1,2	1,1	1,0	0,95	0,88	0,81	0,75
IDEAL 7000 NL	1,1	1,3	1,2	1,1	1,1	1,0	0,9	0,86	0,79
IDEAL NEO - AD	1,2	1,3	1,2	1,2	1,1	1,0	1,0	0,90	0,83
IDEAL NEO - MD	1,2	1,3	1,2	1,2	1,1	1,0	1,0	0,89	0,82
ENERGETO NEO	1,1	1,3	1,2	1,1	1,1	1,0	0,9	0,86	0,79
MONOBLOCK	1,4	1,4	1,3	1,2	1,2	1,1	1,05	-	-
NORDLINE	1,5	1,4	1,3	1,2	1,2	1,1	1,0	-	-
IDEAL 70	1,4	1,4	1,3	1,2	1,2	1,1	1,0	-	-
4000 CASEMENT	1,3	1,3	1,3	1,2	1,1	1,1	0,98	-	-
EASY SLIDE	2,5	1,7	1,6	-	-	-	-	-	-
MULTI SLIDE	2,1	1,7	1,6	1,6	1,5	-	-	-	-
SMART SLIDE	1,4	1,4	1,3	1,3	1,2	1,1	1,0	0,98	-
HST 85	1,4	1,4	1,4	1,3	1,3	1,2	1,2	1,1	1,0
GREENEVOLUTION FLEX	1,1	1,3	1,2	1,1	1,1	1,0	0,9	0,86	0,80
BLUEEVOLUTION 82	1,1	1,3	1,2	1,1	1,1	1,0	0,94	0,87	0,81
BLUEEVOLUTION 92	1,0	1,2	1,2	1,1	1,0	0,97	0,90	0,83	0,76
EVOLUTIONDRIVE 82	1,3	1,4	1,3	1,3	1,2	1,2	1,1	1,0	0,97
EKOSUN 70	1,3	1,3	1,3	1,2	1,1	1,1	0,99	0,92	-
EKOSUN 6	1,2	1,3	1,2	1,2	1,1	1,0	0,96	0,89	0,82
EKOSUN 6 NL	1,4	1,4	1,3	1,2	1,2	1,1	1,0	0,96	0,89
EKOSUN 7	1,1	1,3	1,2	1,1	1,1	1,0	0,93	0,86	0,79
EKOSUN HST	1,3	1,4	1,3	1,3	1,2	1,2	1,1	1,0	0,97
S 9000	1,0	1,2	1,2	1,1	1,0	0,96	0,89	0,83	0,76
S 8000	1,2	1,3	1,2	1,2	1,1	1,03	0,96	0,89	0,83
Gealan HST	1,5	1,5	1,4	1,4	1,3	1,2	1,2	1,1	1,1

All values have been presented for the basic structures of a given system with reference dimensions,
i.e. 1.230 x 1.480 mm for windows and 1.480 x 2.180 mm for sliding doors.
 U_f heat transfer coefficient values are presented as a weighted average.

HEAT TRANSFER COEFFICIENT

U _w [W/m ² K]	With a Swisspacerbar (ψ=0,03 W/m ² K)								
	U _g U _f	1,1	1,0	0,9	0,8	0,7	0,6	0,5	0,4
IDEAL 4000	1,4	1,3	1,2	1,1	1,1	1,0	0,92	-	-
IDEAL 4000 NEW	1,3	1,2	1,2	1,1	1,0	0,97	0,90	-	-
IDEAL 5000	1,2	1,2	1,1	1,1	1,0	0,94	0,87	-	-
IDEAL 7000 NEW	1,1	1,2	1,1	1,0	0,97	0,90	0,84	0,77	0,70
IDEAL 8000	1,0	1,1	1,1	1,0	0,94	0,87	0,80	0,74	0,67
ENERGETO 8000	0,94	1,1	1,1	0,99	0,92	0,85	0,78	0,72	0,65
IDEAL 7000 NL	1,1	1,2	1,1	1,0	1,0	0,90	0,83	0,76	0,69
IDEAL NEO - AD	1,2	1,2	1,1	1,1	1,0	0,94	0,87	0,80	0,74
IDEAL NEO - MD	1,2	1,2	1,1	1,1	1,0	0,93	0,86	0,79	0,72
ENERGETO NEO	1,1	1,2	1,1	1,0	1,0	0,90	0,83	0,76	0,69
MONOBLOCK	1,4	1,3	1,2	1,1	1,1	1,02	0,95	-	-
NORDLINE	1,5	1,3	1,2	1,1	1,1	0,98	0,91	-	-
IDEAL 70	1,4	1,3	1,2	1,1	1,1	0,98	0,91	-	-
4000 CASEMENT	1,3	1,2	1,2	1,1	1,0	0,95	0,88	-	-
EASY SLIDE	2,5	1,6	1,5	-	-	-	-	-	-
MULTI SLIDE	2,1	1,6	1,5	1,4	1,4	-	-	-	-
SMART SLIDE	1,4	1,3	1,2	1,1	1,1	0,99	0,92	0,85	-
HST 85	1,4	1,3	1,3	1,2	1,2	1,1	1,0	0,98	0,92
GREENEVOLUTION FLEX	1,1	1,2	1,1	1,0	1,0	0,90	0,83	0,77	0,70
BLUEEVOLUTION 82	1,1	1,2	1,1	1,0	0,97	0,91	0,84	0,77	0,71
BLUEEVOLUTION 92	1,0	1,1	1,1	1,0	0,94	0,87	0,80	0,73	0,67
EVOLUTIONDRIVE 82	1,3	1,3	1,2	1,2	1,1	1,03	0,97	0,92	0,86
EKOSUN 70	1,3	1,2	1,2	1,1	1,0	0,96	0,89	0,82	-
EKOSUN 6	1,2	1,2	1,1	1,1	1,0	0,93	0,86	0,79	0,72
EKOSUN 6 NL	1,4	1,3	1,2	1,1	1,1	1,00	0,93	0,86	0,79
EKOSUN 7	1,1	1,2	1,1	1,0	0,97	0,90	0,83	0,76	0,69
EKOSUN HST	1,3	1,3	1,2	1,2	1,1	1,03	0,97	0,92	0,86
S 9000	1,0	1,1	1,1	1,0	0,94	0,87	0,80	0,73	0,66
S 8000	1,2	1,2	1,1	1,1	1,00	0,93	0,86	0,80	0,73
Gealan HST	1,5	1,4	1,3	1,2	1,2	1,13	1,07	1,01	0,96

All values have been presented for the basic structures of a given system with reference dimensions,
i.e. 1.230 x 1.480 mm for windows and 1.480 x 2.180 mm for sliding doors.
U_f heat transfer coefficient values are presented as a weighted average.

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IDEAL4000

WINDOW AND DOORSYSTEM



1,0

Uw for Ug = 0.7
(Ultimate spacer bar)

2

gaskets

5

chambers (frame)

70

construction depth
(mm)

R

renovation

A

aluminiumcover



glazing with packages up
to a width of 42 mm



the standard fitting is
equipped with two anti-
burglary points per sash



standard blockade of incorrect
handle position (RUwindow)

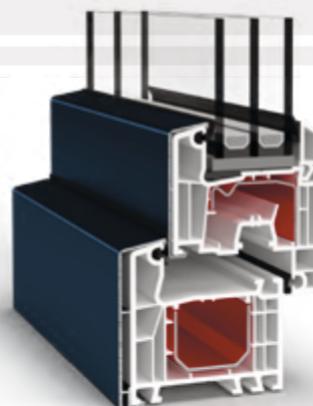
IDEAL 4000

It is a universal system that works well both in modern architecture of single-family and multi-family housing, as well as in the case of renovation. As standard, windows made on the basis of the Ideal 4000 system are equipped with two anti-burglary catches on the sash and pivots to prevent burglary with adjustable pressure. An important element of the fitting is the central clamp. The clamp automatically adjusts to the clearance. It ensures not only safety, but also tightness and light functioning of window sashes. As standard, all fittings for tilt-and-turn windows are supplemented with a lock against handle misplacement. An additional functional element is the micro-ventilation scissor, which creates the possibility of slot ventilation.

Ideal 4000 variants



RENOVATION 65 MM | 40 MM



ALUMINIUM COVER

IDEAL4000 NEW

WINDOW AND DOORSYSTEM



0,97

Uw for Ug = 0.7
(Ultimate spacer bar)

2

gaskets

6

chambers (frame)

85

construction depth
(mm)



standard blockade of
incorrect handle position
(RUwindow)



available in a variant with a
straight or semi-flush sash



on a white and brown core

IDEAL4000 NEW

The combination of the most popular solution with the six-chamber structure of the frame allowed for better thermal insulation of the window. High standard based on a product proven and appreciated by the market.

The Ideal 4000 profile series combines the latest technology with the highest living comfort. The structure of profiles with a depth of 70-85 mm allows to achieve good thermal parameters, thus creating a comfortable space for little money.

As standard, windows made on the basis of the Ideal 4000 New system are equipped with two anti-burglary catches on the sash and pivots to prevent burglary with adjustable pressure.

An additional functional element that we offer as standard as one of the few manufacturers is the micro-ventilation scissor, which enables slot ventilation.

IDEAL5000

WINDOW AND DOORSYSTEM



0,94

Uw for Ug = 0.7
(Ultimate spacer bar)

3

gaskets

5

chambers (frame)

70

construction depth
(mm)

R

renovation

A

aluminiumcover



a vasalatok ún. száraz
kamrában működnek – ez
növeli élettartamukat



available in a variant with a
straight or semi-flush sash



rejtett zsanérok
alkalmazhatók

IDEAL 5000

Windows combining modern design with very good technical parameters. The system is equipped with 3 gaskets, thanks to which it is characterized by high parameters of water resistance and air permeability. It is also available in a version with a lower frame, thanks to which we obtain a larger glazed area, which allows for better illumination of every room.

As a standard, windows in this system are equipped with a double-glazed unit, but it can be successfully replaced with a triple-glazed because this system allows the use of 42 mm glazing. This replacement will significantly reduce the thermal transmittance of the window.

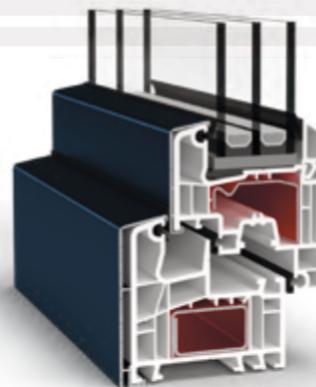
It is worth remembering that the lower the coefficient, the higher the savings from bills for thermal energy. For this reason, we recommend choosing a warm spacer. Made of a complex composite material, it improves the insulation of the glass and reduces the risk of temporary condensation of water vapor.

IDEAL 5000

Ideal 5000 variants



RENOVATION 65MM | 40 MM



ALUMINIUM COVER

IDEAL 7000 NEW

WINDOW AND DOORSYSTEM



0,77

Uw for Ug = 0.5
(Ultimate spacer bar)

2

gaskets

6

chambers (frame)

85

construction depth
(mm)



open steel 1.5 mm thick as
standard



on a white and brown core



glazing with packages
up to 52 mm wide

IDEAL 7000 NEW

Modern architecture requires new standards in the technical, functional and aesthetic sphere. Windows based on the 7000 New system are a completely new approach to energy efficiency. It is also a breakthrough in the production of PVC windows. New possibilities are created by the "powerdur inside" technology, which allows you to remove the steel reinforcement from the frame and replace it with special, thermoplastic inserts reinforced with Ultradur High Speed polymer. The elimination of steel from the frame also means the elimination of thermal bridges, and therefore the possibility of obtaining even better parameters of thermal transmittance of sections.

Profiles with a depth of 85 mm also create great opportunities for choosing a glazing package. It is enough to choose a window with a two-chamber glazing unit with a warm frame to achieve the U_w heat transfer coefficient of $0.77 \text{ W / m}^2\text{K}$.

IDEAL7000 NL

WINDOW AND DOORSYSTEM



0,83

Uw for Ug = 0.6
(Ultimate spacer bar)

2

gaskets

5

chambers (frame)

120

profondeur (mm)



can be made
in HFL technology



Possibility to choose
BUVA threshold



standard blockage of
incorrect handle position
(RU window)

IDEAL7000 NL

A system dedicated specifically to the Dutch market. Due to different assembly methods, we offer two types of frames.

Ideal 7000 NL can be made using the standard V-superweld, but also with the innovative method of joining profiles, which is HFL. The HFL welding technology is distinguished by the angle of joining horizontal and vertical profiles. V-super and V-perfect welds, which are standard in other systems, are created by joining profiles at an angle of 45 degrees. HFL technology allows to connect profiles at an angle of 90 degrees, which completely changes the appearance of the window, creating an imitation of a structure made of wood.

We make Ideal 7000 NL windows in dozens of smooth and wood-like colours. We offer one-sided veneering (on the outside or inside), double-sided or in the duo-colour formula (the woodwork has a different colour on the inside and a different colour on the outside). Thanks to these possibilities, it is possible to maintain a harmonious appearance of the façade and to match the appearance of the window to the interior arrangement.

IDEAL8000

WINDOW AND DOORSYSTEM



0,74

U_w for $U_g = 0.5$
(Ultimate spacer bar)

3

gaskets

6

chambers (frame)

85

construction depth
(mm)

A

aluminium cover



standard fitting with 5
anti-burglary points



recommended for passive
construction



glazing with packages up
to 52 mm wide

IDEAL 8000

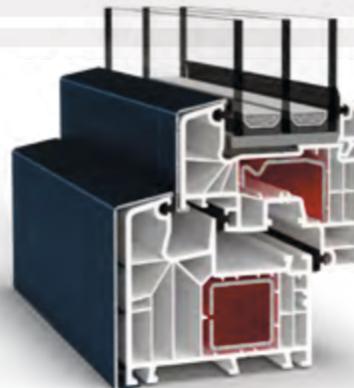
Latest generation windows. By choosing them - you choose warmth, silence and aesthetics. Windows based on the Ideal 8000 system provide thermal properties and acoustic insulation at the highest level.

Windows made on the basis of the Ideal 8000 system are equipped with fittings with 5 anti-burglary points, consisting of special hooks and pins that prevent burglary and at the same time regulate the pressure.

Ideal 8000 is the warmest system from the Ideal family that we offer. It creates great opportunities. Its installation depth allows for the installation of glazing units even 52 mm wide. For customers who value the combination of the highest quality with thermal and acoustic comfort, we recommend retrofitting the windows with a wider, even four-pane package, ensuring perfect conditions inside the building.

This system also sets standards in terms of performance, characterized by even the highest, fourth class of air permeability and class 8A for water resistance.

Ideal 8000 variant



ALUMINIUM COVER

ENERGETO8000

WINDOW AND DOORSYSTEM



0,72

U_w for $U_g = 0.5$
(Ultimate spacer bar)

3

gaskets

6

chambers (frame)

85

construction depth
(mm)

A

aluminium cover



possibility of using Maco
Multi-Power fittings



recommended for
energy-saving and passive
construction



Ultradur High Speed
reinforcement

ENERGETO8000

Windows based on the Energeto8000 system are a completely new approach to energy efficiency. New possibilities are created by the Ultradur High Speed technology, which allows the removal of the steel reinforcement from the frame. In the system, the standard steel reinforcement in the frame is replaced with special plastic inserts.

The standard glazing of windows also looks different, because in this system the glazing is always glued to the window sash. The glue is applied around the perimeter of the glass, thanks to which it is permanently attached to the sash. This solution makes the glass become a structural element of the window, which increases its stability. Windows made on the basis of the Energeto8000 system are equipped with fitting that is characterized by six safe points and supplemented with a lock for incorrect handle position.

Energeto8000 owes its name to its amazing thermal properties. Windows allow for a heat transfer coefficient below $0.75 \text{ W} / \text{ m}^2\text{K}$, which allows the system to be used in low-energy and passive houses.

Energeto8000 variant



ALUMINIUM COVER

IDEAL NEO AD

WINDOW AND DOORSYSTEM



1,20

Uw for Ug = 1.1
(Ultimate spacer bar)

3

gaskets

6

chambers (frame)

76

construction depth
(mm)



"bonding inside"
technology available



large glazing areas



glazing units from 22
to 54 mm (standard)

IDEAL NEO

Ideal Neo offers a unique design with simple structures, powerful edges and narrow window rebates. The main advantage of this system is its lightness and elegance. Ideal Neo is suitable for new construction as well as renovation projects. Ideal Neo is a system based on innovative technologies. It also offers a modern and timeless look and attractive design. It is sure to meet the requirements of customers who appreciate timeless design. One of the additional options available is the 'bonding inside' technology, which makes it possible to achieve exceptional static parameters. The permanent bonding of the pane and sash reduces the risk of sash bending and warping. This technology ensures the comfort of using windows for many years.

The importance of windows in interior design is growing, and Ideal Neo offers an extremely modern design and attractive structures. Our range includes RAL colours and a decorative wood-ec structure - a faithful reproduction of natural wood. The very good technical parameters of Ideal Neo and the possibility of using a wood-like structure make it possible to fully realise your dream design.

IDEAL NEO MD

WINDOW SYSTEM



1,20

Uw for Ug = 1.1
(Ultimate spacer bar)

3

gaskets

5-6

chambers

76

construction depth
(mm)



available core colours:
brown, anthracite, white



5 anti-burglary points
per sash



glazing with units
up to 54 mm wide

IDEAL NEO MD

Ideal Neo MD is a more versatile and comprehensive version of the Energeto Neo system. Its profile possesses a modern cubist shape and provides high thermal insulation. The lightweight construction of the system makes it possible to produce a variety of forms, which allows for the creation of unique solutions and customisation.

The system uses a classic centre sealing based on an extruded centre rebate, which improves burglary protection (Safetec Inside). The gasket helps achieve a low U-value translating into energy savings and improved thermal comfort.

The Ideal Neo MD window line is distinguished by its exceptionally narrow frame and sash folding width of only 110 mm. The sleek profiles give elegance to the windows, while the narrow rebates allow the implementation of expansive glazing. This window system meets current design trends and provides plenty of natural light in the interior.

ENERGETO NEO

WINDOW SYSTEM



0,76

Uw for Ug = 0.5
(Ultimate spacer bar)

3

gaskets

6

chambers

76

construction depth
(mm)



aludec and woodec
structures available



recommended
for passive
construction



glazing with packages
from 36 to 48 mm wide

ENERGETO NEO

The Energeto Neo system designed for passive construction is characterised by the replacement of the steel core with a composite solution, which improves the thermal insulation of the windows by eliminating the potential heat bridge. The use of an additional central gasket increases the thermal performance of the structure even more.

Energeto Neo has better static parameters than comparable solutions thanks to the use of Powerdur Inside reinforcements and glueing the windows with Bonding Inside. Safetec Inside is responsible for anti-burglary security.

Simple, cubist forms of Energeto Neo profiles stylistically refer to aluminium windows also thanks to their facing. They can be additionally covered with pleasant to the touch and highly aesthetic wood-ec and alu-ec structures, imitating the appearance of wood and aluminium respectively.

MONOBLOCK

WINDOW AND DOORSYSTEM



1,0

Uw for Ug = 0.7
(Ultimate spacer bar)

2

gaskets

5

chambers (frame)

162

construction depth
(mm)



possibility of combining the frame with different types of sashes (Classic-line or Round-line)



frame depth 70, 102, 122, 142 or 162 mm



the possibility of using an opening brake controlled by a handle

MONOBLOCK

Windows designed for installation in the insulation layer. The thickness of the insulation is not a problem as Monoblock frames are available in several width variants. Windows dedicated to the French market.

Monoblock windows, as standard, are available with a double-glazed unit. In order to reduce the U_w heat transfer coefficient of the windows, it is worth equipping them with a triple-glazed unit. We also recommend warm spacer bars made of composite material, which improve the insulation of the glass and reduce the risk of temporary condensation of water vapor.

The windows can also be fitted with a brake in the handle, handles with a key, mosquito nets and other accessories. Investors who want their windows to look a bit more elegant, we recommend supplementing them with bolections. The muntin bars play mainly a decorative role. Our offer includes internal bolections and glued bolections.

Depending on the selected type of muntin bars, they are placed between the glass panes or glued to the glass surface.

NORDLINE

WINDOW AND DOORSYSTEM



0,98

Uw for Ug = 0.7
(Ultimate spacer bar)

2

gaskets

5

chambers (frame)

120

construction depth
(mm)



possibility of hidden
drainage



large glazing



the possibility of using
glazing with a width
of 10 to 42 mm

NORDLINE

Extremely distinctive system, dedicated to the Scandinavian markets. Windows made on the basis of this product line have an extraordinary internal sill with a total depth of 120 mm.

A characteristic feature of windows based on the NordLine system is the way they are opened. The windows, depending on the needs, can open both inwards and outwards. The latter solution fits perfectly into the construction style of the Scandinavian markets.

Outward opening windows provide the highest degree of tightness. The wind pressing on the wings presses them down, which makes the window a perfect insulator. An additional advantage of such a solution is, of course, space saving and no barriers in the room.

Joining profiles in this system is made by means of a V-super weld, and the profile core is always white.

IDEAL 70

WINDOW AND DOORSYSTEM



0,91

Uw for Ug = 0.6
(Ultimate spacer bar)

2

gaskets

5

chambers (frame)

70

construction depth
(mm)



the possibility of producing windows that open both to the outside and inside



full range of extensions and connectors



the possibility of using glazing with a width of 10 to 42 mm





IDEAL 70

Outward opening window system intended for the UK market. The system definitely stands out from the rest. Profiles are welded in a technology in line with the trends prevailing on the British market and are in accordance with the regulations and standards that apply to it.

Ideal 70 is primarily harmonious shapes, strong construction, attractive design and a guarantee of timeless elegance. The system allows glazing with packages up to 42 mm wide, which translates into the possibility of obtaining attractive thermal values.

Various types of additional profiles, connectors and extensions significantly increase the attractiveness of the system. It is also worth noting that the Ideal 70 system has all the necessary documents authorizing it to be used and traded in the UK.

IDEAL 4000 CASEMENT

WINDOW AND DOORSYSTEM



0,88

Uw for Ug = 0.6
(Ultimate spacer bar)

2

gaskets

5

chambers (frame)

70

construction depth
(mm)



profile adapted to the
requirements of the UK market



an ideal solution for both
residential and public buildings



the possibility of using
glazing with a width
of 10 to 42 mm

IDEAL 4000 CASEMENT

A system dedicated to the production of outward opening windows, popular in particular in Great Britain, Australia and the USA. Recommended both for installation in residential and public utility buildings. Their classic appearance makes them appreciated by customers. The system offers great design possibilities.

Windows based on the Ideal 4000 Casement system look identical on the outside and inside - both the slats and profiles have a simple shape. The glazing bead securing system meets the requirements of the Secure by Design and PAS24 programs.

Thanks to a wide number of additional profiles, connectors and extensions, you can create windows of various combinations. Windows made on the basis of the Ideal 4000 Casement system are also characterized by very good thermal properties that allow to obtain U_w values below $0.9 \text{ W / m}^2\text{K}$.

SALAMANDER SYSTEMS



GREENEVOLUTION FLEX	50
BLUEEVOLUTION 82	52
BLUEEVOLUTION 92	54
EVOLUTIONDRIVE 82	56



GREENEVOLUTION FLEX

WINDOW AND DOORSYSTEM



0,77

Uw for Ug = 0.5
(Ultimate spacer bar)

3

gaskets

5 / 6

chambers

76

construction depth
(mm)



glazing with packages
up to 48 mm wide



the system is available
in the flex variant



recommended
for passive construction

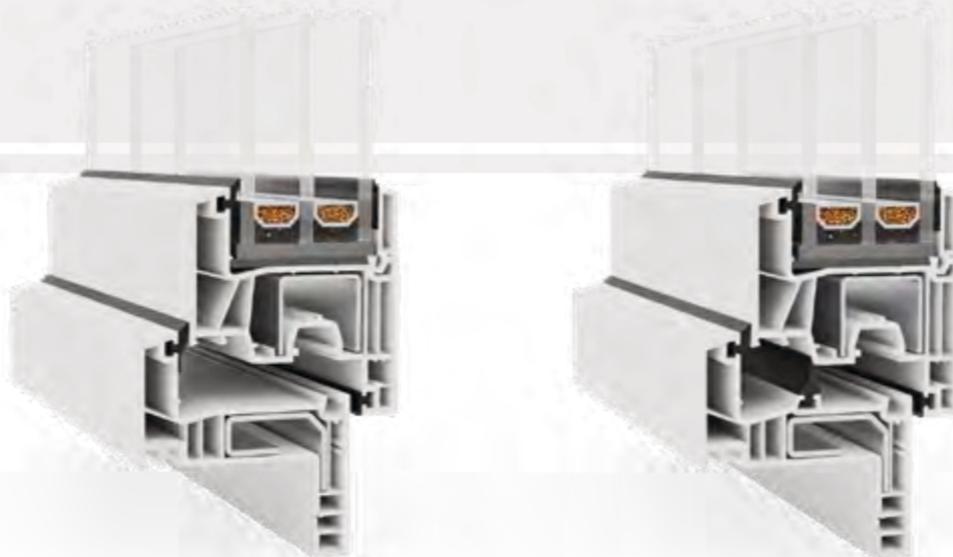
GREENEVOLUTION FLEX

Windows and doors in this system combine the best parameters in their class with timeless design. Standard triple glazing with two LOW-E layers ensures extremely high energy efficiency, thermal comfort inside and good sound insulation.

The window profiles are made of phthalate-free and plasticizer-free material, which makes them stronger, more durable and more resistant to UV radiation. GreenEvolution windows and doors are available in various variants, such as: tilt and turn, fixed, French, tilt, sliding and awning.

Each element of this system is designed to save energy, increase thermal efficiency, reduce noise and aesthetically finish building facades. The system will work in both residential and commercial buildings.

Green Evolution Flex variants



RENOVATION A

RENOVATION B

BLUEVOLUTION 82

WINDOW AND DOORSYSTEM.



0,77

Uw for Ug = 0.5
(Ultimate spacer bar)

3

gaskets

6

chambers (frame)

82

construction depth
(mm)

R

renovation

A

aluminiumcover



standard hardware with 6
anti-theft points



standard blockade of
incorrect handle position (RU
windows)



glazing with packages up
to 53 mmwide

BLUEVOLUTION 82

The optimal combination of innovative technology and the best thermal protection parameters, appropriate for energy-saving construction. Windows made in the BlueEvolution82 system are already equipped as standard with a two-chamber package of warm glass with a heat transfer coefficient of $U_g = 0.5W / m^2K$.

A huge advantage is the profiles themselves, which are not only made of high-quality PVC, but above all are an excellent thermal insulator, which is guaranteed by the six-chamber structure of the profile and the triple sealing system. The installation depth of 82 mm allows for glazing with packets up to a width of 53 mm. If the window is also supplemented with a warm spacer, we can obtain thermal transmittance parameters corresponding to those of energy-saving windows, additionally reducing the risk of temporary condensation of water vapor.

The profiles are made of the highest quality PVC, thanks to which they are characterized by a unique, shiny, snow-white color.

BLUEVOLUTION 82

Bluevolution 82 variants



RENOVATION60MM | 35 MM



ALUMINIUM COVER

BLUEVOLUTION 92

WINDOW AND DOORSYSTEM.



0,73

Uw for Ug = 0.5
(Ultimate spacer bar)

3

gaskets

6

chambers (frame)

92

construction depth
(mm)



standard fitting with
6 anti-burglary points



characteristic, extremely white
and shiny profiles



possibility of glazing with
four-pane packages

BLUEEVOLUTION 92

Guarantee of the highest energy efficiency. This solution combines modern technologies, functionality and great design, resulting in top-class windows. A characteristic feature of the system is the extremely snow-white colour and gloss of the profiles.

BluEvolution 92 windows already provide the best thermal insulation that we can guarantee as standard. A two-chamber glazing unit, three gaskets, a profile with a depth of 92 mm- all these elements have an impact on the obtained very low heat transfer coefficients, which makes them very eagerly used by investors looking for energy-saving joinery.

Windows based on the profiles of a recognized German manufacturer create new standards in terms of long-term durability and care of the woodwork surface. They are characterized by a unique, snow-white colour. Glossy profiles, made of the highest quality PVC, are easy to keep clean and resistant to weather conditions.

BluEvolution 92 profile belongs to the highest class of profiles. Class A and steel that strengthens the structure prevent the deformation of frames and sashes, even with large windows.

EKOSUN SYSTEMS



EKOSUN 70	60
EKOSUN 6	62
EKOSUN6 NL	64
EKOSUN 7	66
EKOSUN HST	68



EKOSUN 70

WINDOW AND DOORSYSTEM



0,96

Uw for Ug = 0.7
(Ultimate spacer bar)

2

gaskets

6

chambers (frame)

70

construction depth
(mm)

R

renovation



standard blockade of
incorrect handle position
(RU windows)



standard fitting with two
points anti-burglary points
per window sash



available in the variant with
Round-Line or Classic-Line
sash

EKOSUN 70

The system is designed on the basis of proven design solutions. It is a response to the needs of most customers- it is stable, stiff, tight and provides good sound and thermal insulation. An effective barrier for the heat running out from the inside creates a wide profile with a six-chamber structure.

Profiles in the EkoSun70 system are available in two variants (Soft-Line and Round-Line), thanks to which they create great arrangement possibilities. They are available in a wide range of smooth and wood-like colours. Windows can be veneered on one side, on both sides and in the duo-colour formula. The use of the duo-colour veneer will allow for a perfect match of the joinery appearance to both the façade and interior design.

As standard, EkoSun70 windows are equipped with two anti-burglary catches and pivots to prevent burglary with adjustable pressure. These elements ensure optimal safety of use.

EkoSun70 variant



RENOVATION 49 MM

EKOSUN 6

WINDOW AND DOORSYSTEM



0,79

Uw for Ug = 0.5
(Ultimate spacer bar)

2

gaskets

6

chambers (frame)

81

construction depth
(mm)



available as a variant with
Soft-line sash



possibility of making windows
with a fixed or movable post



glazing with packages up to
55 mm wide

EKOSUN 6

Thermal and acoustic insulation at a very good level. Windows that guarantee thermal comfort and durability for many years. Best value for money. Recommended for energy-saving construction.

The aesthetic qualities of windows made based on the EkoSun6 system go hand in hand with technical parameters. The system has very good thermal properties and offers great design possibilities. Profiles with a depth of 81 mm allow the use of glazing units up to a width of 55 mm.

To obtain the highest thermal insulation parameters, we recommend supplementing the EkoSun6 windows with a triple-pane package and a warm spacer. The warm frame is made of a complex insulating material. It improves the insulation of glass panes and reduces the risk of temporary condensation of water vapor. In addition, warm frames guarantee long-term tightness of insulating glass units and maximize the savings of thermal energy losses by reducing the thermal bridge between the frame and the rail.

In order to complete the product, we recommend the selection of both hygroscopic and pressure ventilators with which you can maintain adequate ventilation in the rooms. Diffusers are placed in the upper profile of the frame and sash, and the milling cutters for their assembly can be made at the production stage.

EKOSUN6 NL

WINDOW AND DOORSYSTEM



1,4

Uw for Ug = 0.5
(Ultimate spacer bar)

2

gaskets

5-6

chambers (frame)

81

construction depth
(mm)



available with
a straight sash and classic
rebate as options



available with a fixed
or movable mullion
manufactured



glazing with units
up to 55 mm

A modern multi-story apartment building facade with balconies and windows. The building features a mix of light and dark tones, with balconies having black railings. The windows are framed in dark colors, and some have decorative elements. The overall aesthetic is contemporary and architectural.

EKOSUN6 NL

This system answers the needs of demanding customers who require innovative solutions. EkoSun6 NL is dedicated to the Dutch market. No other manufacturer offers this option! It is produced exclusively for Eko-Okna S.A. The EkoSun6 NL profile utilizes a unique approach allowing us to provide outward-opening systems without using a reversing profile. In addition, the availability of an anthracite core makes it possible to produce windows with dark veneers in a consistent colour scheme.

EkoSun6NL is recommended for energy-efficient construction. It is ideal for single-family housing. Its thermal and acoustic insulation is at a very good level. An additional advantage it provides is its original and unusual appearance. EkoSun6 NL windows and doors guarantee thermal comfort and durability for many years.

EKOSUN 7

WINDOW AND DOORSYSTEM



0,76

U_w for $U_g = 0.5$
(Ultimate spacer bar)

3

gaskets

7

chambers (frame)

81

construction depth
(mm)

A

aluminium cover



optional "A" class profiles
available



fittings work in the so-called
dry chamber - which
increases their service life



glazing with packages up
to 55 mm wide

EKOSUN 7

For people looking for energy-saving solutions at a good price, we recommend windows in the EkoSun7 system. Seven is a product recommended for passive construction. The triple sealing system in combination with seven chambers in the frame with a depth of 81 mm makes the windows a very good insulator. Thanks to the third gasket, we not only gain better functional properties, but also increase the service life of the fitting, as it is less exposed to moisture. We recommend supplementing windows in this system with a triple-pane package and a warm spacer, thanks to which windows built on the basis of this profile will become a complete offer for customers looking for the best solutions.

Seven creates great opportunities - both in terms of functionality and aesthetics. As standard, the EkoSun7 windows are equipped with two anti-burglary catches and anti-burglary pins with adjustable pressure. These elements provide optimal protection. Safety of use is guaranteed by the lock of the incorrect position of the handle, which is installed in tilt and turn windows in standard.

EkoSun7 variant



ALUMINIUM COVER

GEALAN SYSTEMS



S9000	72
S8000	74
GEALAN HST	76



S 8000

WINDOW AND DOORSYSTEM



0,80

Uw for Ug = 0.5
(Ultimate spacer bar)

2

gaskets

5 / 6

chambers (frame)

74

construction depth
(mm)

R

renovation



glazing with STV
technology (only in
windows)



the possibility of using a
movable post



5 anti-burglary points per
sash as standard

S 8000

The S8000 profile system meets the market needs. The system is designed with a retaining seal with a profile depth of 74 mm. A characteristic feature of the S8000 is optimized profile geometry in terms of material, which protects natural resources and thus the environment - so important today.

The main thought behind creating the S8000 system? Tight windows, efficiency and maximum comfort of use! We put it all together and closed within the S8000 system.

The S8000 profile system meets the market needs, offering one of the tightest solutions. A characteristic feature of the S8000 system is the process of its creation, which uses the materials for production in such a way that they protect natural resources and thus the environment - so important nowadays.

The same steel reinforcements may be used for the construction of the frame, sash and post. The system includes profiles with a structure of 5 or 6 chambers.

S 8000 variants



MONOBLOCK



RENOVATION65MM | 35 MM

S 9000

WINDOW AND DOORSYSTEM



0,73

U_w for $U_g = 0.5$
(Ultimate spacer bar)

3

gaskets

6

chambers (frame)

82,5

construction depth
(mm)

R

renovation



glazing with STV
technology (only in
windows)



the possibility of using a
movable post



6 anti-burglary points per
sash as standard

S 9000

The best statics, the ability to build large structures without the need to install crossbars, glazing with the use of STV technology, colouring of profiles using acrycolor - these are just some of the unusual features of the S 9000 system. The security of windows made with the S 9000 system is that there are six anti-burglary points. In addition, it is supplemented with a handle in correct position blockade.

The STV technology used in this system is something that we do not offer in any other. Pasting the glass panes improves the statics of the entire structure. The process of glazing with this technology and the possible replacement of the glass are easier than in standard windows.

System S 9000 is welded using the V-Perfect technology. Thanks to this, we provide our customers with precisely finished woodwork, because the place of joining the profiles becomes practically invisible.

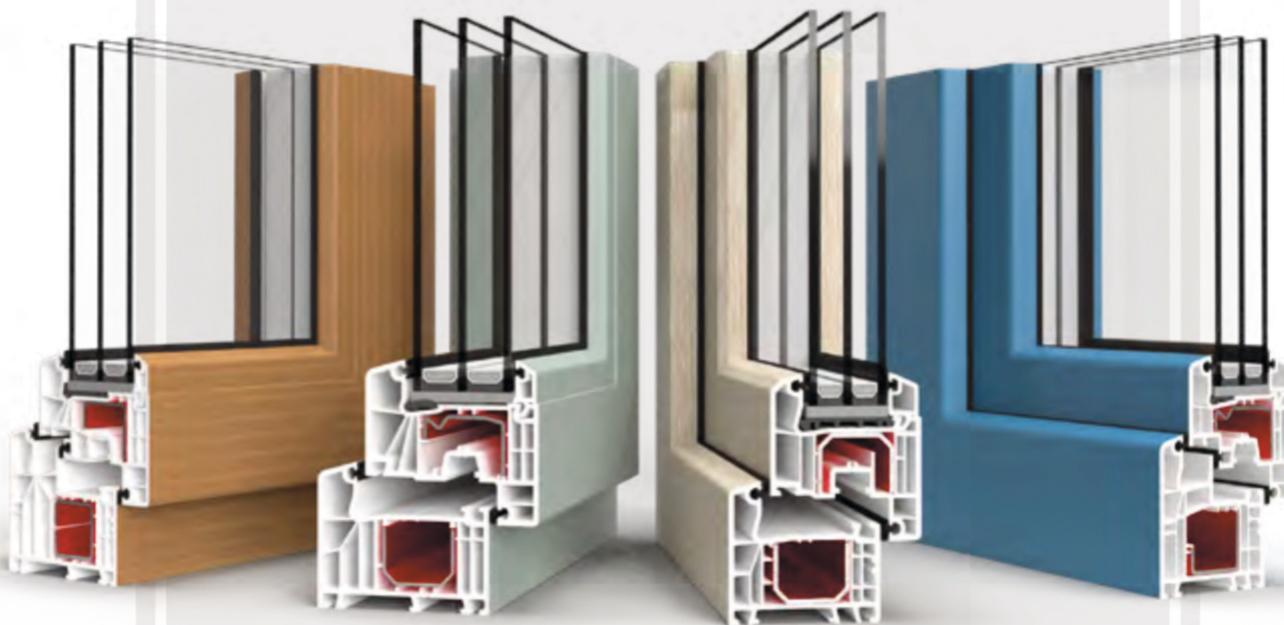
S 9000 variants



RENOVATION 65MM | 35MM

COLOURING

Windows are more and more often a decorative element of both the entire building and the interior. The basic method is to choose the colour and structure of the veneer. We have a wide range of colours of smooth and wood-like veneers, as well as profiles characterized by a satin surface made in acrylcolor technology.



ALUPLAST



AP01



AP02



AP05



AP06



AP11



AP15



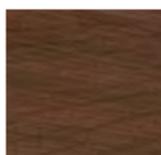
AP19



AP20



AP21



AP22



AP23



AP25



AP27



AP28



AP29



AP30



AP32



AP34



AP40



AP41



AP43



AP44



AP47



AP50



AP52



AP60



AP61



AP62



AP63



AP65



AP70



AP71



AP72



AP75



AP79



AP88



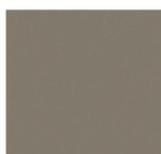
AP94



AP95



AP102



AP103



AP104



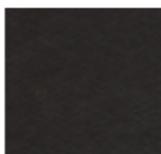
AP105



AP106



AP107



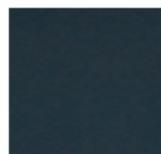
AP108



AP109



AP110



AP111



AP112



AP113



AP115



AP116

SALAMANDER



SAL 03



SAL 11



SAL 18



SAL 19



SAL 21



SAL 25



SAL 26



SAL 27



SAL 33



SAL 37



SAL 39



SAL 41



SAL 42



SAL 43



SAL 50



SAL 51



SAL 52



SAL 55



SAL 59



SAL 67



SAL 69



SAL 71



SAL 72



SAL 73



SAL 74



SAL 78



SAL 84



SAL 87



SAL 88



SAL 90



SAL 92



SAL 93



SAL 94



SAL 98



SAL 107



SAL 108



SAL 109



SAL 110



SAL 111



SAL 112



SAL 113



SAL 115



SAL 116

EKOSUN



AP01



AP02



AP05



AP06



AP15



AP19



AP20



AP23



AP27



AP28



AP29



AP30



AP32



AP33



AP34



AP40



AP41



AP43



AP44



AP50



AP52



AP60



AP61



AP63



AP70



AP71



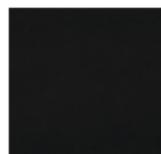
AP72



AP88



AP95



AP106



DO 118



DO 119



DO 120

GEALAN



GEA 01



GEA 02



GEA 03



GEA 04



GEA 07



GEA 08



GEA 09



GEA 11



GEA 12



GEA 13



GEA 16



GEA 17



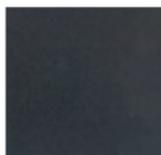
GEA 19



GEA 20



GEA 21



GEA 22



GEA 23



GEA 24



GEA 25



GEA 27



GEA 28



GEA 30



GEA 31



GEA 32



GEA 34



GEA 35



GEA 37



GEA 40



GEA 41



GEA 42

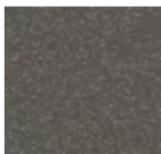


GEA 43



GEA 46

ACRYLCOLOR



DB 703



RAL 7015



RAL 7016



RAL 7039



RAL 7040



RAL 8014



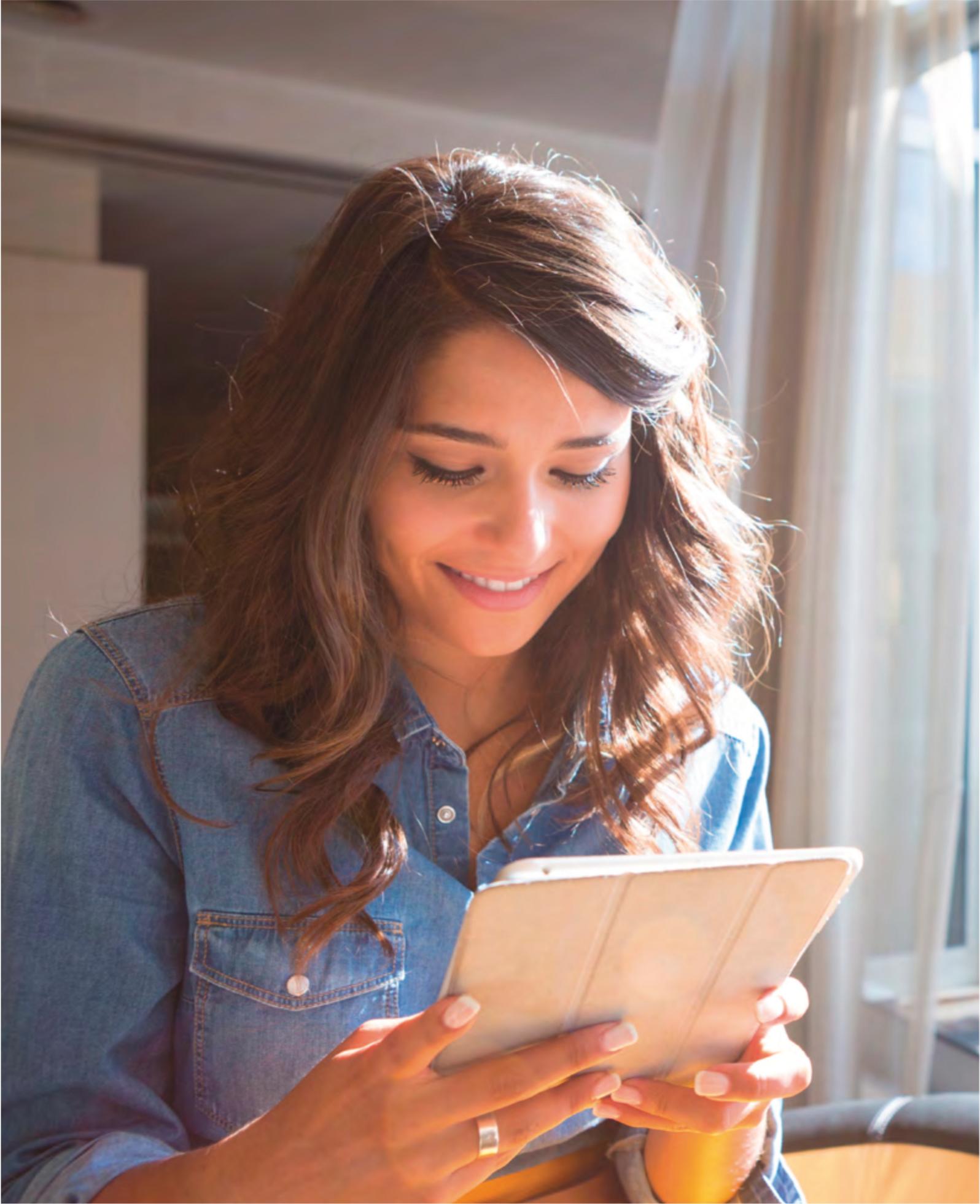
RAL 9005

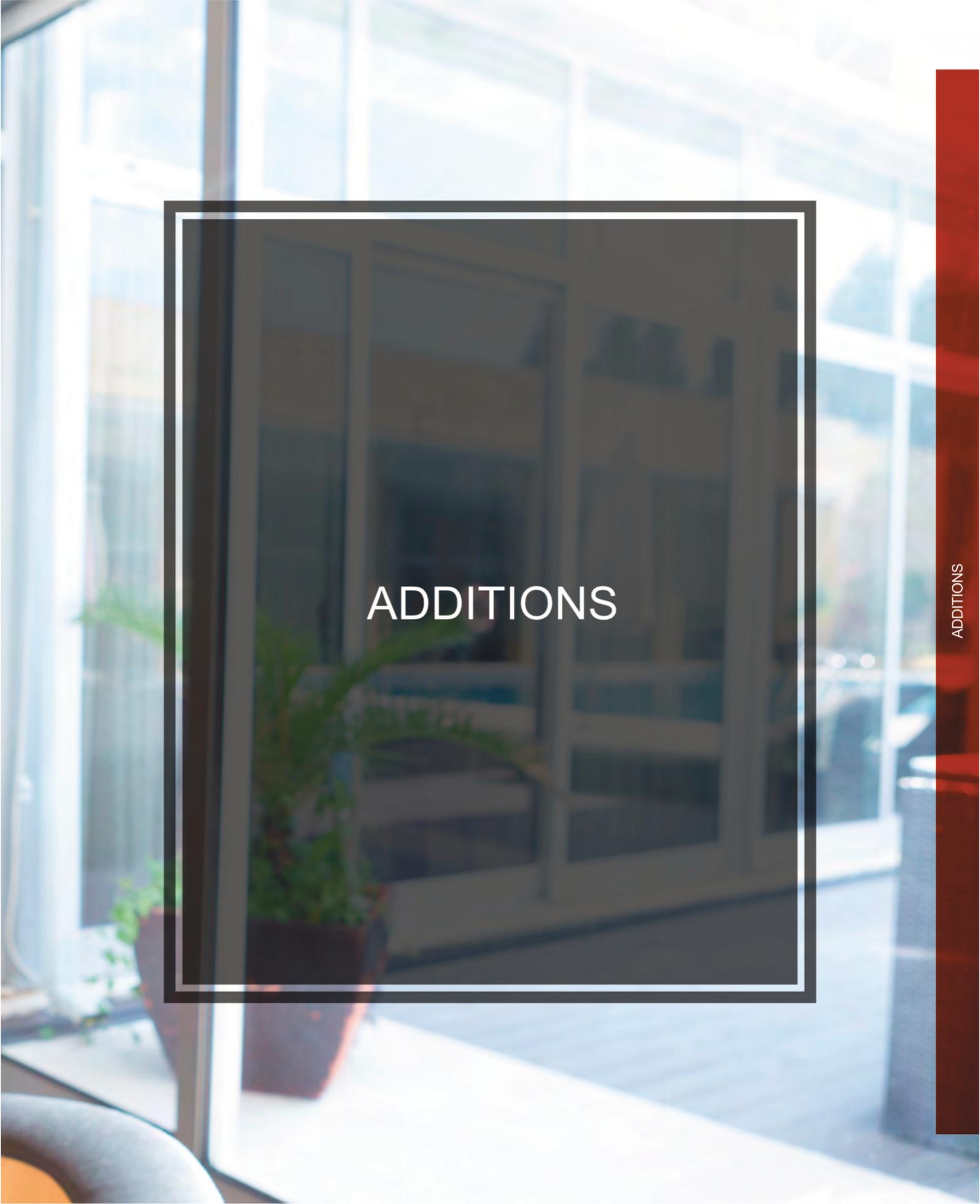


RAL 9016



SILVER





ADDITIONS

WINDOWPANES

The selection of a glazing package is often limited to the selection of the number of panes, which makes them more or less energy-efficient. However, our offer is much wider. We offer energy-saving, sound-absorbing, safe, anti-burglary and anti-dazzle glass panes. Additionally, we have a wide range of ornamental glass, in several dozen designs to choose from.

The inter-pane space of the formed units is usually filled with 90% argon. We also offer krypton-filled glass, thanks to which it is possible to obtain a heat transfer coefficient of up to $0.3 \text{ W / m}^2\text{K}$.

The possibility of joining different types of glass and a smaller or larger number of panes allows for obtaining the appropriate parameters for each type of windows and doors from our offer.

We present a summary of the basic types of insulating glass with a description of their functions:



1-chamber glazing packages

Single-chamber, double glazing composed of two glass panes. It is a standard for basic window and door systems.



2-Double-chamber glazing

Double-chamber, double glazing, increasing thermal comfort in the room. Separation of the inter-pane space with an additional glass pane significantly reduces heat transfer.



Sound-absorbing

Insulating glass units with a special acoustic foil provide an increased level of soundproofing.



Secure

Laminated and / or toughened panes increase safety. Their puncture or shatter resistance is adjusted to the customer's requirements.



Solar control

Panels that reduce the flow of light and solar energy into the room. They are offered with selective, absorbent or reflective glass.



Fireproof

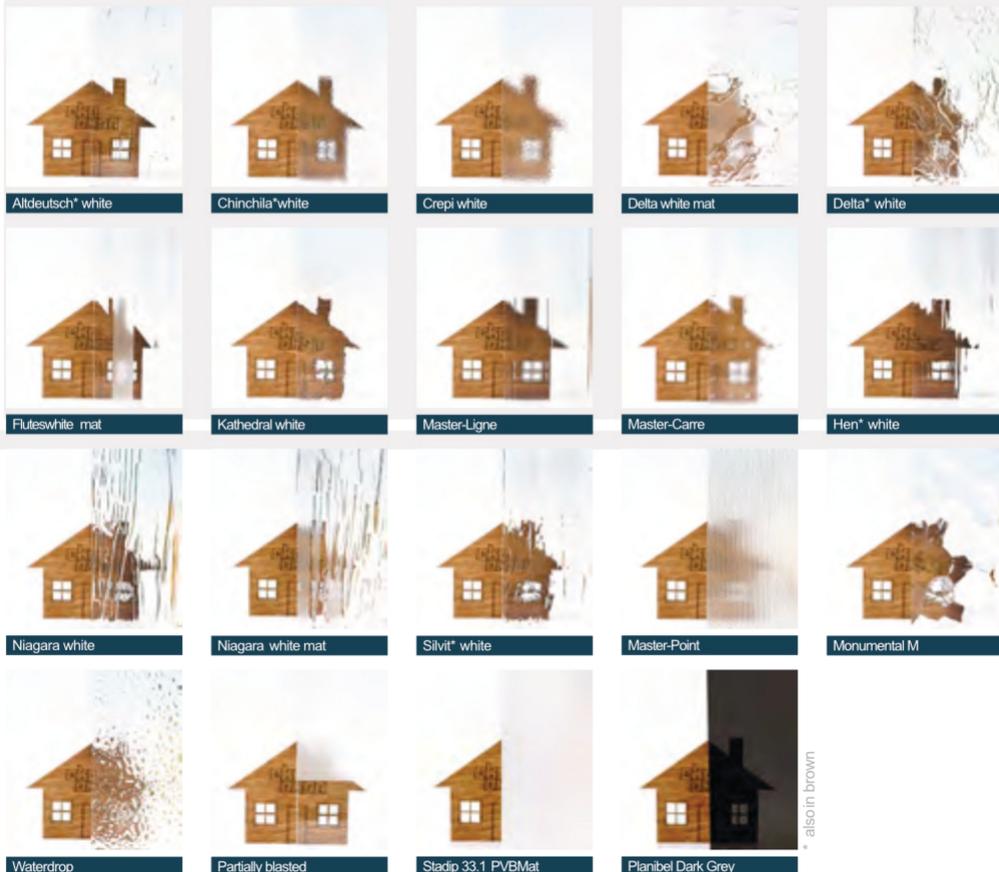
Single window panes, single or double glazed units with fire resistance class EI30 or EI60.

DECORATIVE WINDOW PANES

Insulating glass with decorative glass is perfect a choice for windows, doors and partitions. Decorative panes will work in homes, offices, shops, hotels and restaurants.

Depending on the chosen pattern, they can not only increase privacy, but also brighten the interior, making it optically larger, which is another advantage.

In addition to standard glass with a matte coating, we also offer ornamental glass with the following patterns:



MUNTIN BARS

The muntin bars give the windows an elegant and unique character, and in some cases are an indispensable decorative element referring to the old architectural style. Our offer includes both glazing bolections, glued on the glass, and Viennese bolections (the so-called duplex). Each offered type is available in several widths and many colours.

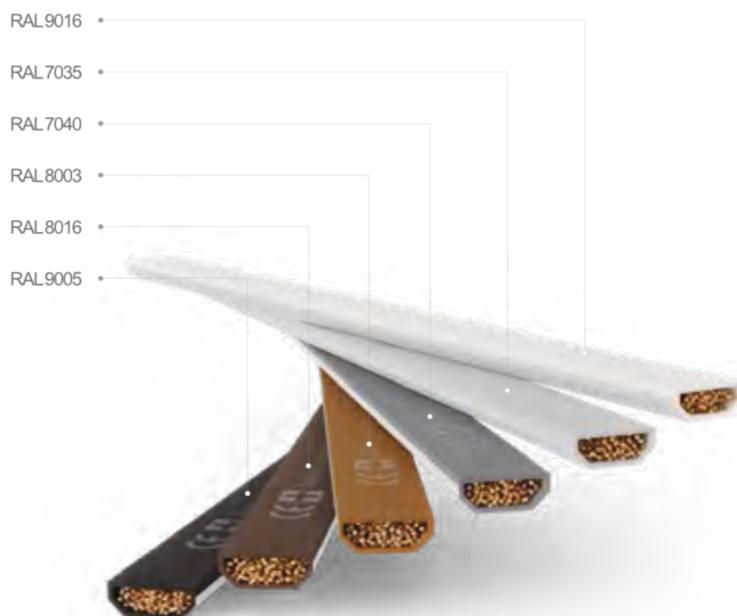


SPACER BARS SWISSPACERULTIMATE

In addition to the standard frame made of aluminium, we also offer one of the best warm spacer bars available in the world.

With the SwisspacerUltimate spacerbar, the Ψ factor is only $0.03 \text{ W / m}^2\text{K}$. The lower value of this coefficient not only reduces the possibility of water vapor condensation on the periphery of the glass, but also allows for a significant reduction of the thermal transmittance coefficient for the entire window.

The frames are available in several colours from the RAL palette.



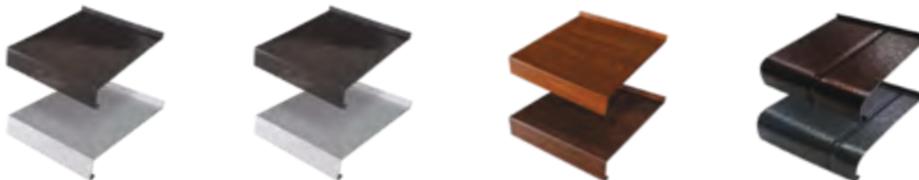
PVC SYSTEMWINDOW SILLS

Systemwindow sills combine aesthetics with the highest quality. Their smooth surfaces are easy to clean, resistant to bumps and scratches. Available in various variants and colours matching the colour of the ordered joinery.



EXTERNALWINDOW SILLS

You can choose window sills made of aluminium or steel. They are characterized by very good quality and resistance to weather conditions. They are aesthetic, durable, non-flammable, resistant to moisture and chemicals. Thanks to the drip caps they provide ideal protection for the façade.



INTERNAL CHAMBER WINDOW SILLS

They are made of hard polyvinyl chloride, the same that is used in the production of PVC windows and doors. Coated with foil with high resistance to scratching and UV rays. The chamber structure ensures the rigidity of the structure. Window sills are available in many colours.



WINDOW AIR VENTS

Ventilators provide not only constant access of fresh air to the interior, but also allow the removal of moisture from the room. It is a convenient way to ventilate rooms without having to open windows, which is especially important in winter. Diffusers are mounted in the shaft rebate, on the upper frame and sash profiles or under the seal.

We offer diffusers with various methods of air supply control - hygroscopic, pressure and manual.

Each diffuser from our offer has appropriate certificates confirming their proper operation in various conditions.



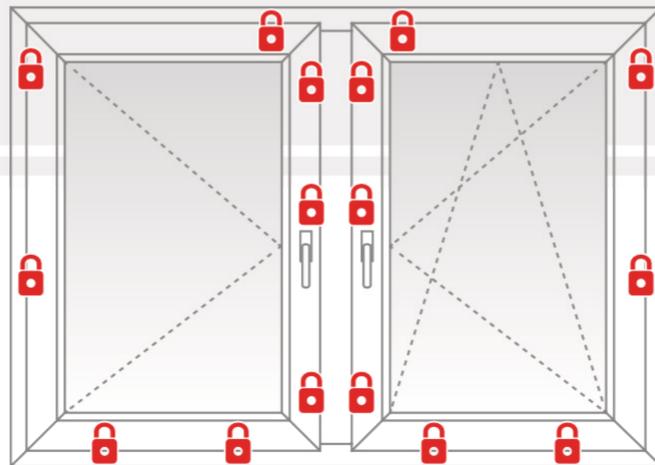
ANTI-THEFT FITTINGS

Clients, who above all value their own and their closest safety, we can assure that by choosing a PVC window in one of the presented systems, the safety comfort will always be on a proper level.

Depending on the chosen system, in standard there are from 2 up to 5 safety points. Special plug and hooks located in specific spots make it very difficult to force the door during a burglary attempt.

For people who want to keep the safety comfort even on a higher level, we also offer fittings with increased durability which is characterized by an increased amount of safety points.

In order to provide a maximum safety for the entire window, we also recommend choosing handles with blockade function in the closed position and glued, safe glass. Those options partially provide a maximum protection by creating a tight barrier for any burglars.



The number of anti-burglary points depends on the structure and dimensions of the window.

DOOR HANDLES

HANDLEALU



HANDLEKWADRO



HANDLENEW YORK



HANDLEDUBLIN/DUBLIN DELUXE



HANDLETBT1005A



HANDLEHAMBURG



HANDLEMOONLINE



HANDLEVICTORY



HANDLETOULON



HANDLEOVERTURE LOCK



HANDLELUXEMBOURG



HANDLEATLANTA



HANDLEPLUTON



HANDLEJOWISZ



HANDLEINOX 1200



HANDLENEW YORK



The availability of a given handle model depends on the selected window system.



LWS&I Windows and Doors
90 Gort Fionnbarra,
Commons Road,
Navan, Co. Meath,
Eircode: C15 NV6P