

HEAT TRANSFER COEFFICIENT

| | With a spacer bar made of aluminium (ψ=0,07 W/mK) | | | | | | | | |
|-------------------|---|-----|-----|-----|-----|------|------|------|------|
| Uw [W/m²K] | Ug Uf | 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 |
| 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 |
| STREAMLINE 76 | 1,3 | 1,3 | 1,3 | 1,2 | 1,1 | 1,1 | 1,0 | 0,93 | 0,86 |
| BLUEVOLUTION 82 | 1,1 | 1,3 | 1,2 | 1,1 | 1,1 | 1,0 | 0,94 | 0,87 | 0,80 |
| BLUEVOLUTION 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 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.

Uf heat transfer coefficient values are presented as a weighted average.

HEAT TRANSFER COEFFICIENT

| | With a Swisspacer spacer bar (ψ =0,03 W/mK) | | | | | | | | |
|-------------------|---|-----|-----|------|------|------|------|------|------|
| Uw [W/m²K] | Ug Uf | 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 |
| 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 |
| STREAMLINE 76 | 1,3 | 1,2 | 1,2 | 1,1 | 1,0 | 0,97 | 0,90 | 0,83 | 0,77 |
| BLUEVOLUTION 82 | 1,1 | 1,2 | 1,1 | 1,0 | 0,97 | 0,91 | 0,84 | 0,77 | 0,71 |
| BLUEVOLUTION 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 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. 1.230×1.480 mm for windows and 1.480×2.180 mm for sliding doors. Uf heat transfer coefficient values are presented as a weighted average.

ALUPLAST SYSTEMS



| IDEAL 4000 | 10 |
|---------------------|----|
| IDEAL 4000 NEW | 12 |
| IDEAL 5000 | 14 |
| IDEAL 7000 NEW | 16 |
| IDEAL 8000 | 18 |
| energeto 8000 | 20 |
| IDEAL 7000 NL | 22 |
| Monoblock | 24 |
| nordline | 26 |
| IDEAL 70 | 28 |
| IDEAL 4000 CASEMENT | 30 |
| EASY SLIDE | 32 |
| MULTI SLIDE | 34 |
| SMART SLIDE | 36 |
| HST 70 | 38 |
| HST 85 | 40 |



IDEAL 4000

WINDOW AND DOOR SYSTEM





5

70

R

A

aluminium cover

Uw for Ug = 0.7 (Ultimate spacer bar)

chambers (frame)



glazing with packages up to a width of 42 mm

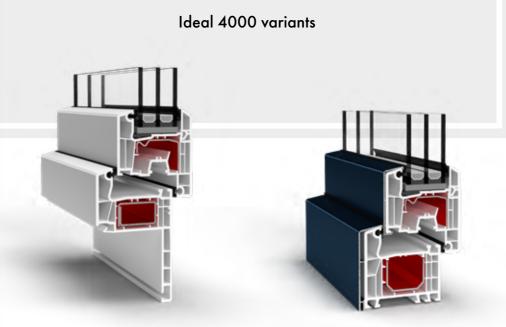


burglary points per sash



standard blockade of incorrect handle position (RU window)



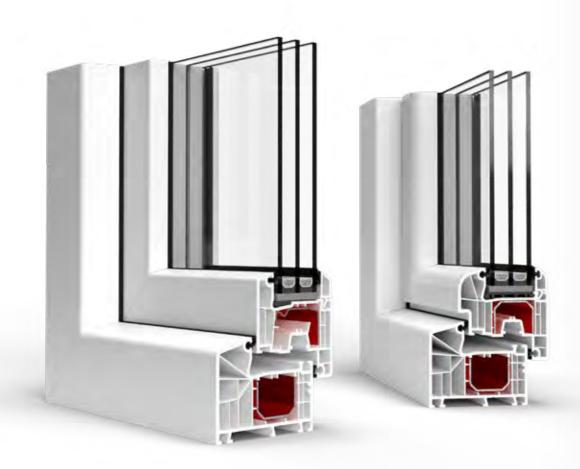


RENOVATION 65 MM | 40 MM

ALUMINIUM COVER

IDEAL 4000 NEW

WINDOW AND DOOR SYSTEM





2

6

85

Uw for Ug = 0.7 (Ultimate spacer bar) aaskets

chambers (frame)

ne) co

construction dep



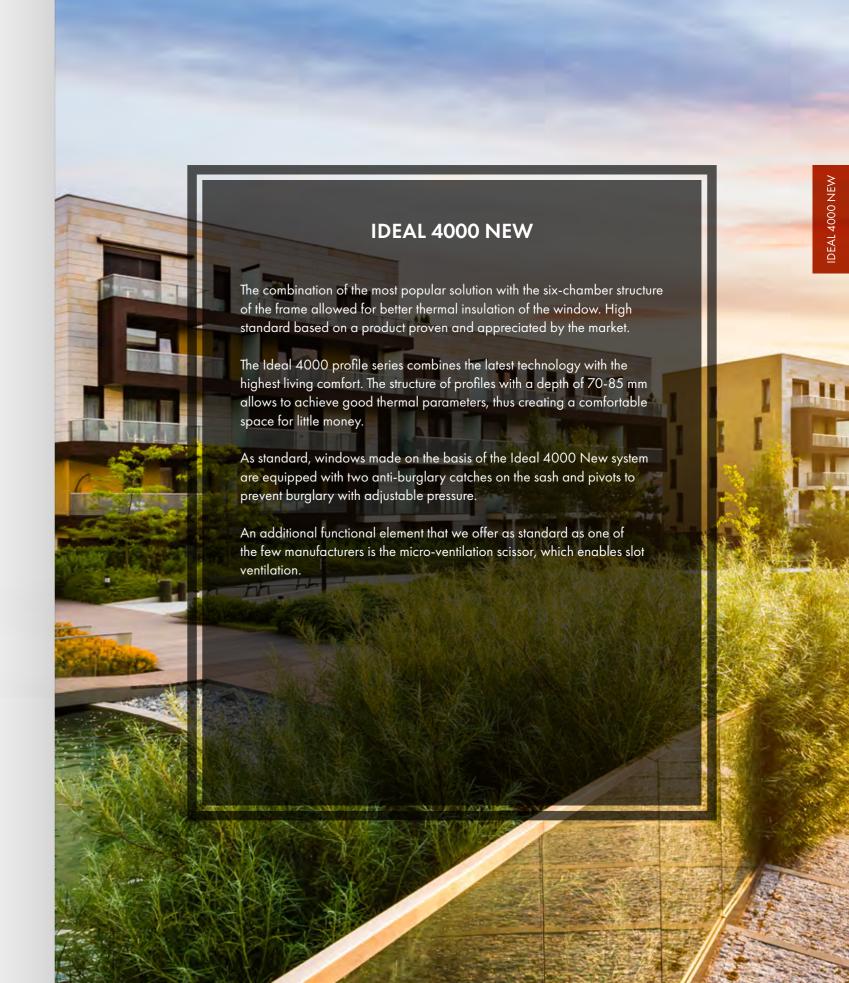
standard blockade of incorrect handle position (RU window)



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



on a white and brown core



IDEAL 5000

WINDOW AND DOOR SYSTEM





Uw for Ug = 0.7 (Ultimate spacer bar)

chambers (frame)

70

R

A

aluminium cover



a vasalatok ún. száraz növeli élettartamukat



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



alkalmazhatók

IDEAL 5000

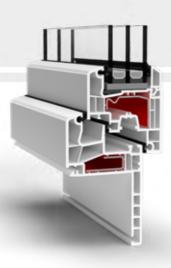
Windows combining modern design with very good technical parameters. The system is equipped with 3 gaskets, thanks to which it is characterized by high parameters of water resistance and air permeability. It is also available in a version with a lower frame, thanks to which we obtain a larger glazed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

15



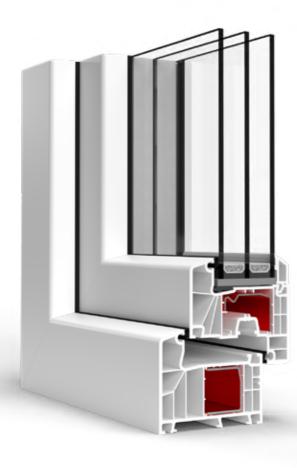


RENOVATION 65 MM | 40 MM

ALUMINIUM COVER

IDEAL 7000 NEW

WINDOW AND DOOR SYSTEM





2

6

85

Uw for Ug = 0.5 (Ultimate spacer bar) aaskets

chambers (frame)

construction dept

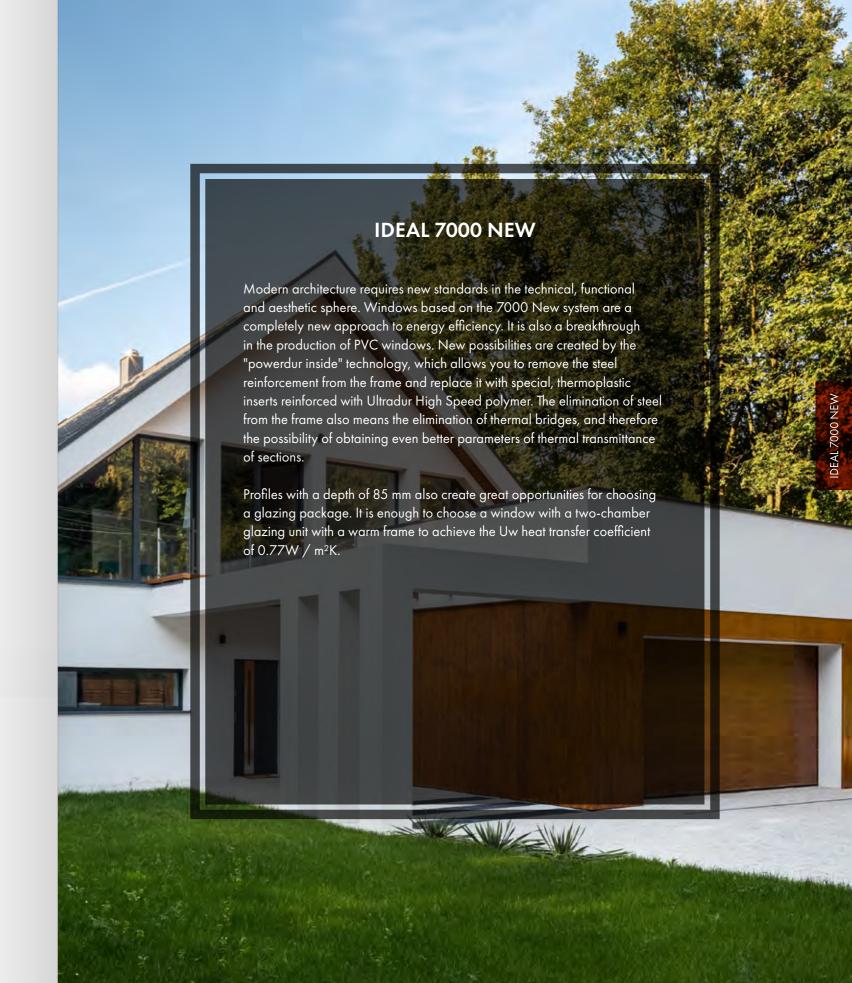
open steel 1.5 mm thick as



on a white and brown core

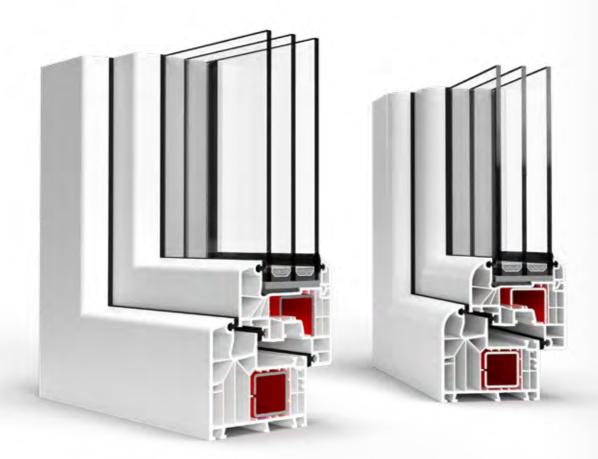


glazing with package



IDEAL 8000

WINDOW AND DOOR SYSTEM



0,74

Uw for Ug = 0.5 (Ultimate spacer bar)

85



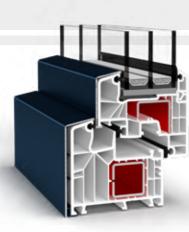
standard fitting with 6 antiburglary points





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 6 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

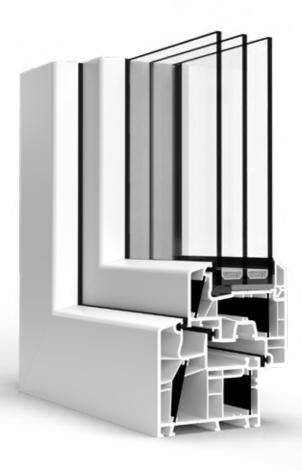


ALUMINIUM COVER

ENERGETO 8000

ENERGETO 8000

WINDOW AND DOOR SYSTEM





6

85







Uw for Ug = 0.5 (Ultimate spacer bar)

Multi-Power fittings

chambers (frame)

20

ENERGETO 8000

Windows based on the Energeto 8000 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 Energeto 8000 system are equipped with fitting that is characterized by six safe points and supplemented with a lock for incorrect handle position.

Energeto 8000 owes its name to its amazing thermal properties. Windows allow for a heat transfer coefficient below 0.75W / m²K, which allows the system to be used in low-energy and passive houses.

Energeto 8000 variant



ALUMINIUM COVER

IDEAL 7000 NL

WINDOW AND DOOR SYSTEM



0,83

Uw for Ug = 0.6

5

120

chambers (frame)

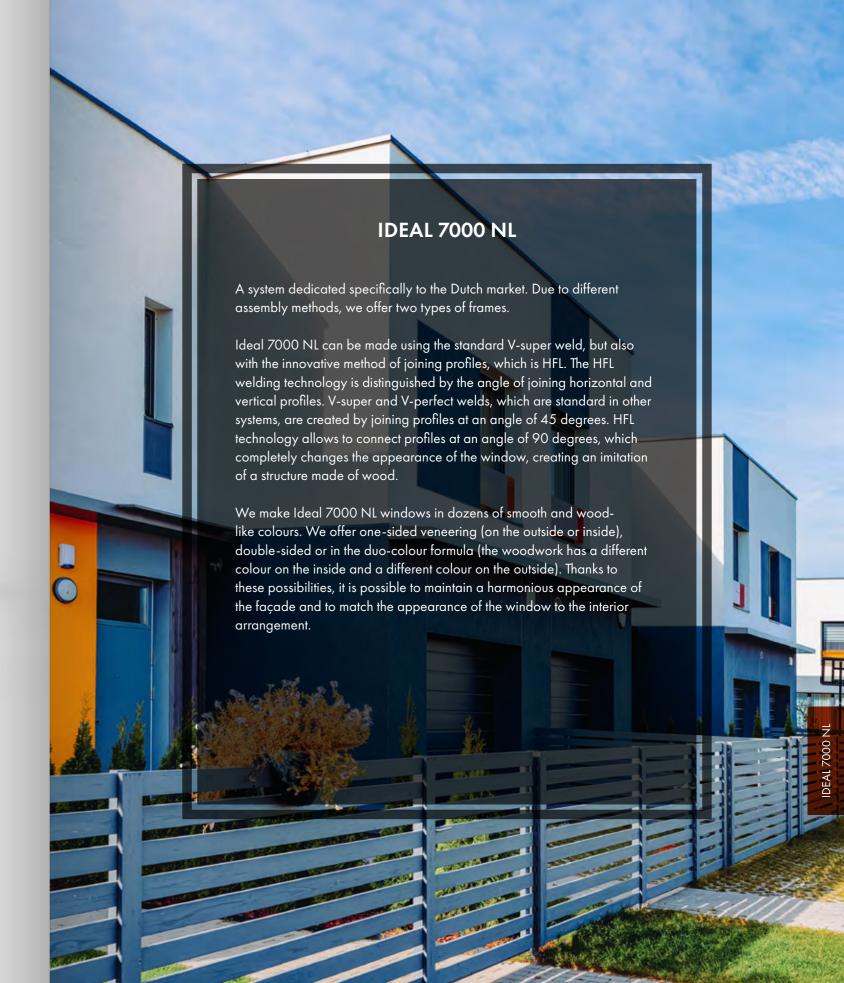
profondeur (mm)





Possibility to choose BUVA threshold





MONOBLOCK

WINDOW AND DOOR SYSTEM





2

5

162

Uw for Ug = 0.7 (Ultimate spacer bar)

gaskets

chambers (frame)

construction depth



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



frame depth 70, 102, 122,



the possibility of using an opening brake controlled by a handle



NORDLINE

WINDOW AND DOOR SYSTEM





2

5

120

Uw for Ug = 0.7 (Ultimate spacer bar)

gaskets

chambers (frame)

construction dep

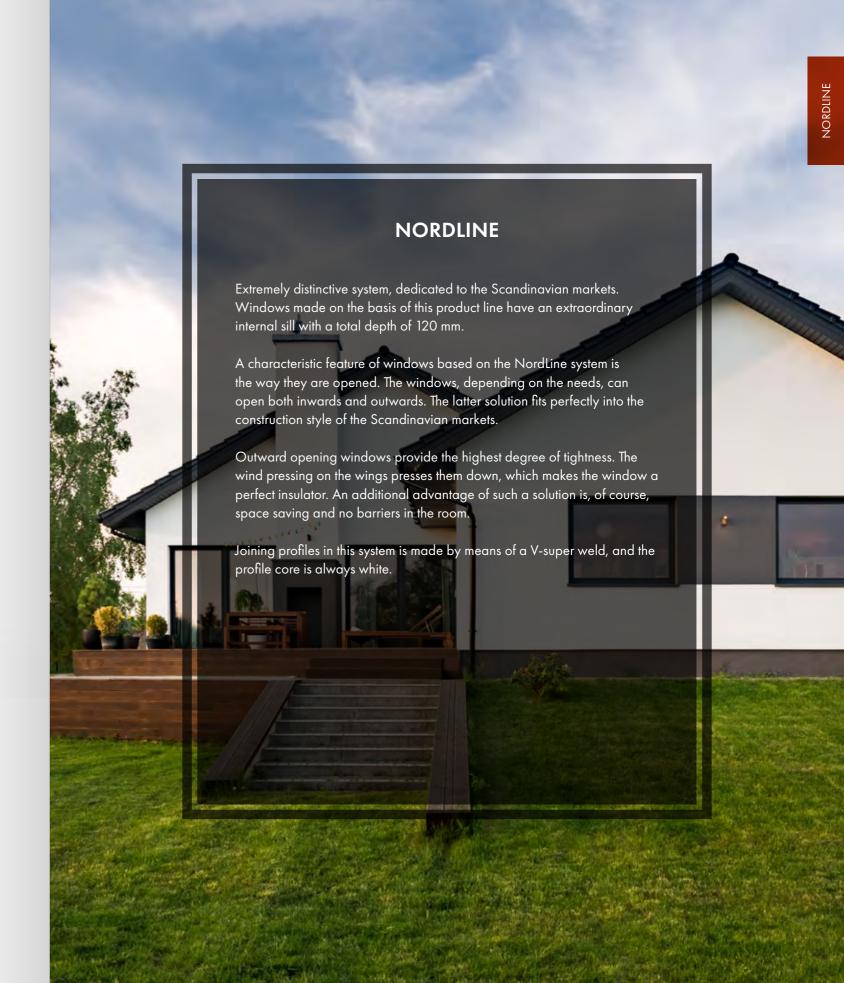
possibility of hidder drainage



larae alazina



the possibility of using glazing with a width



IDEAL 70

WINDOW AND DOOR SYSTEM





2

5

70

Uw for Ug = 0.6 (Ultimate spacer bar)

skets

chambers (frame)

construction de



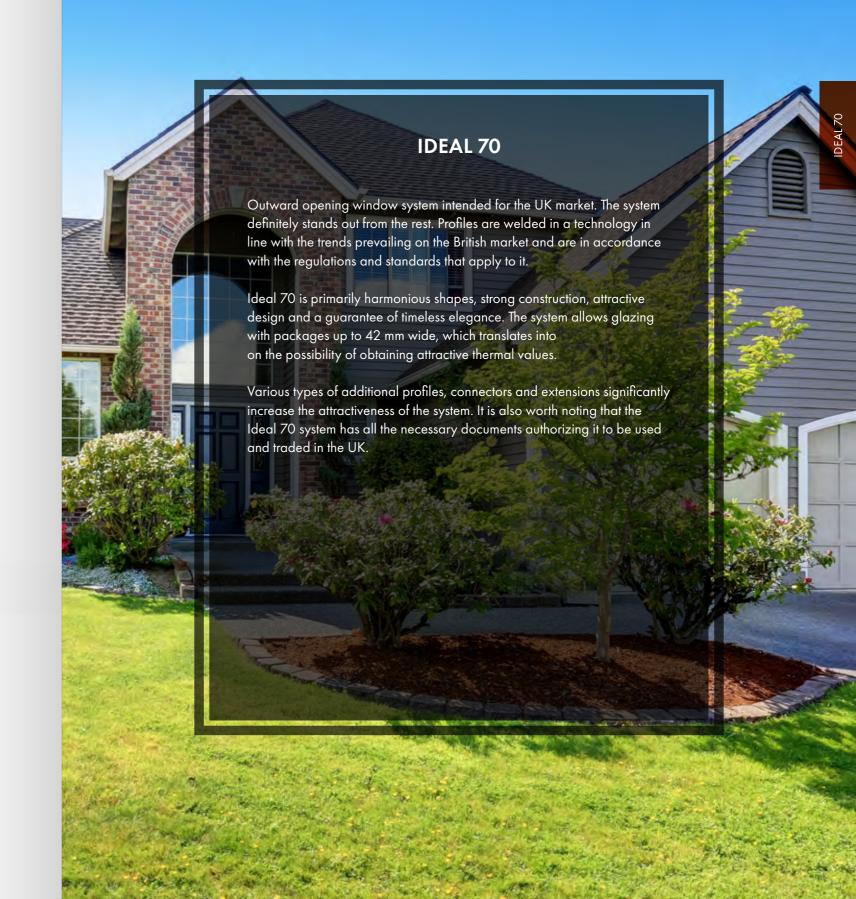
the possibility of producing windows that open both to the outside and inside



all range of extensions and



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



IDEAL 4000 CASEMENT

WINDOW AND DOOR SYSTEM





5

70

Uw for Ug = 0.6





an ideal solution for both

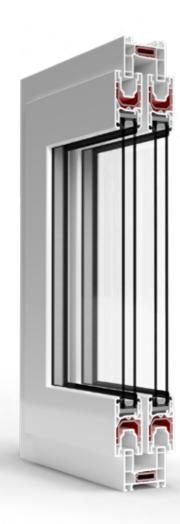


the possibility of using



EASY SLIDE

SLIDING DOOR SYSTEM





Uw for Ug = 1.0

(Ultimate spacer bar)





amount of tracks









MULTI SLIDE

WINDOW AND DOOR SLIDING SYSTEM.





2-3

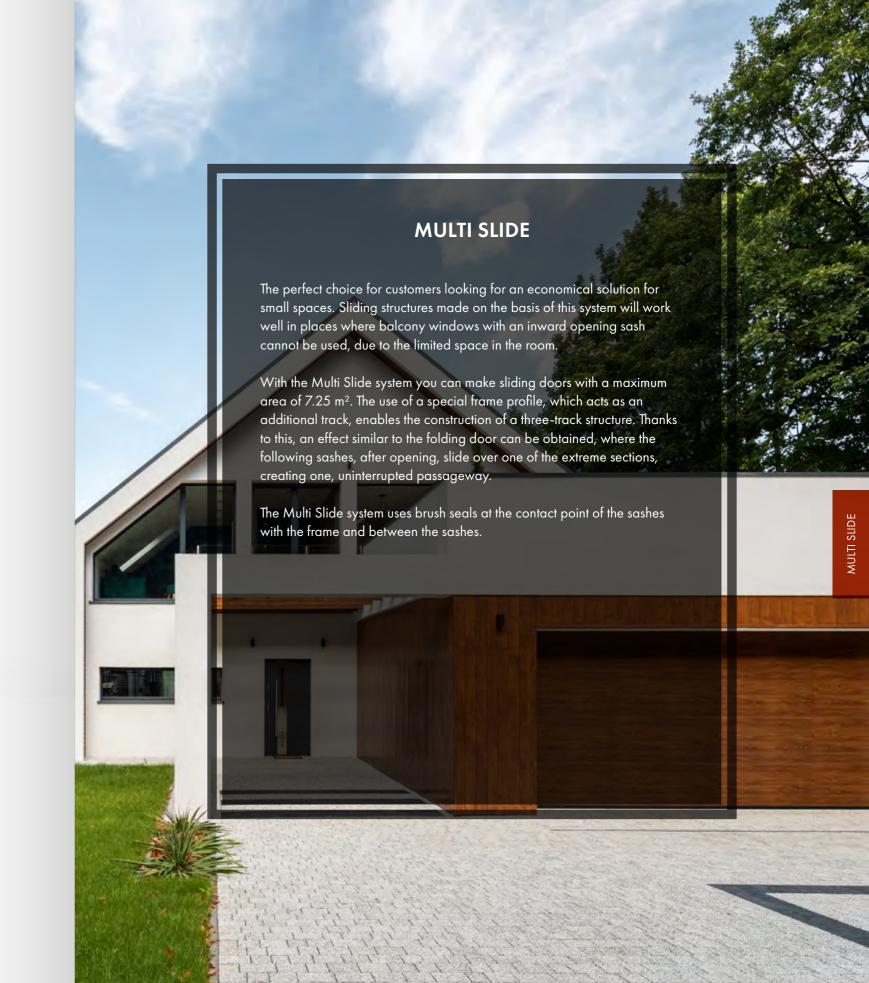
Uw for Ug = 0.9

amount of tracks









SMART SLIDE

SLIDING DOOR SYSTEM





2

140

Uw for Ug = 0.6(Ultimate spacer bar)





one-sided or two-sided

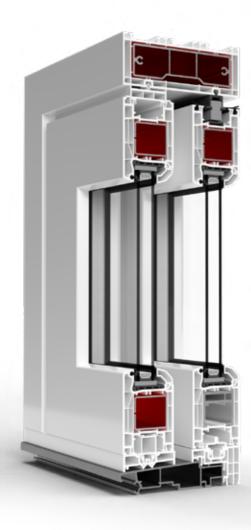


glazing with packages up to



HST 70

LIFT AND SLIDE DOOR SYSTEM





2

167

Uw for Ug = 0.7 (Ultimate spacer bar)

amount of tracks scrolling construction dep

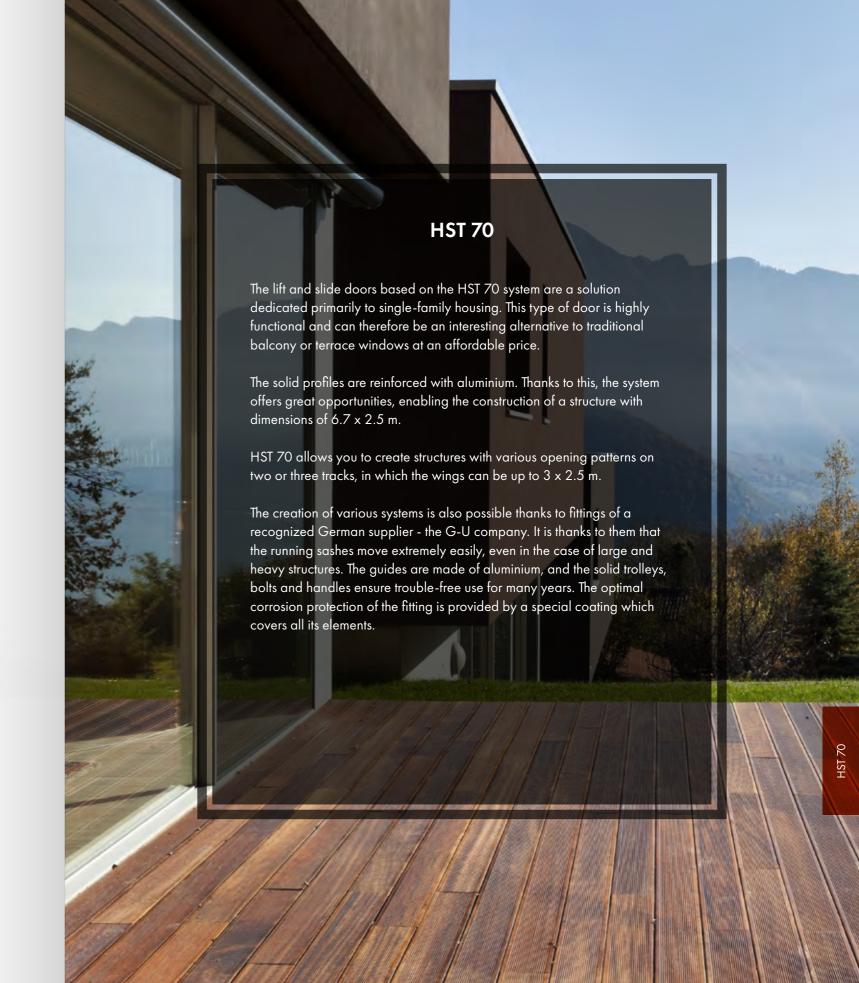




the possibility of using a



glazing with packages with a width of 10 to 42 mm



HST 85

LIFT AND SLIDE DOOR SYSTEM





197



Uw for Ug = 0.5 (Ultimate spacer bar) amount of tracks scrolling

construction dept (mm) aluminium cov

system available in the scheme: A, C, D



maximum sash weiaht - 400 ka



glazing with packages with a width of 20 to 52 mm

HST 85

Lift and slide door system with high thermal properties. It enables the construction of large-format glazing while maintaining the best thermal insulation parameters. The system is available in three variants: Basic, Standard and Premium. Each of them has a different threshold. When using the Premium version, it can be freely used in low-energy buildings.

To maintain the aesthetics of the finish in the Premium version, we enable the installation of Aluskin aluminium covers. This solution has been reserved exclusively for this sliding door system.

The profiles can have a white, brown, cream or anthracite core. Thanks to this, when using veneers, you can obtain a consistent colour of the profile.

The HST 85 system enables the construction of large-sized, glazed lift and slide doors. The maximum width of the set is as much as 6.7 meters, and the maximum permissible dimensions of the wings are 3x2.5 m.





ALUMINIUM COVER

40

HST

SALAMANDER SYSTEMS

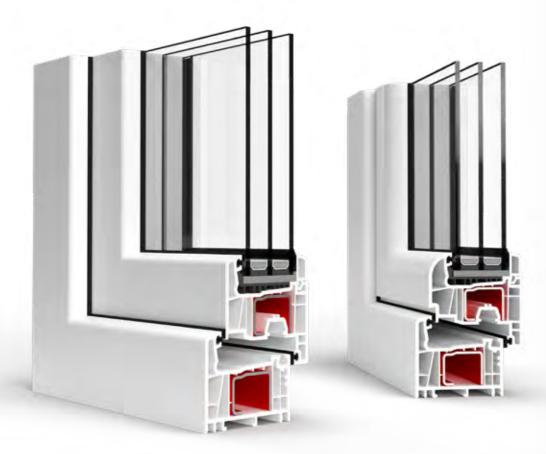
SALAMANDER INDUSTRIEMPRODUKTE

| STREAMLINE 76 | 44 |
|--------------------|----|
| BLUEVOLUTION 82 | 46 |
| BLUEVOLUTION 92 | 48 |
| EVOLUTION DRIVE 82 | 50 |



STREAMLINE 76

WINDOW AND DOOR SYSTEM.





Uw for Ug = 0.7

(Ultimate spacer bar)

2

5

chambers (frame)

76

R

Α

renovation

aluminium cover



standard blockade of incorrect handle position (RU windows)



standard hardware with 6



on a white, brown and caramel core

STREAMLINE 76

An excellent choice for people who value elegance and comfort.

Windows based on the Streamline 76 system combine maximum safety, high thermal and acoustic insulation. Resistant to external factors, characterized by an intense white colour.

As standard, the windows are equipped with six anti-burglary points per sash, and anti-burglary pins

with adjustable pressure and a blockade of incorrect handle position.

The internal centre pressure also plays an important role here. The clamp ensures not only safety, but also tightness and easy operation of the window sashes.

Based on the Streamline 76 system, in addition to typical windows, we also create renovation windows. Their assembly is extremely simple and quick. It does not require disassembly of the old window frame, so we can be sure that we will not breach the walls and elevations in any way. The non-invasive installation of the window makes it the best, and sometimes the only solution for use in historic buildings.

Streamline 76 variants



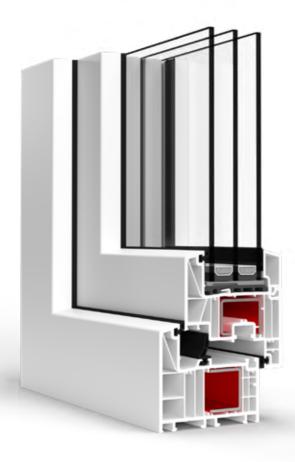


renovation 60 mm | 35 mm

ALUMINIUM COVER

BLUEVOLUTION 82

WINDOW AND DOOR SYSTEM.





Uw for Ug = 0.5 (Ultimate spacer bar)

6

82

R



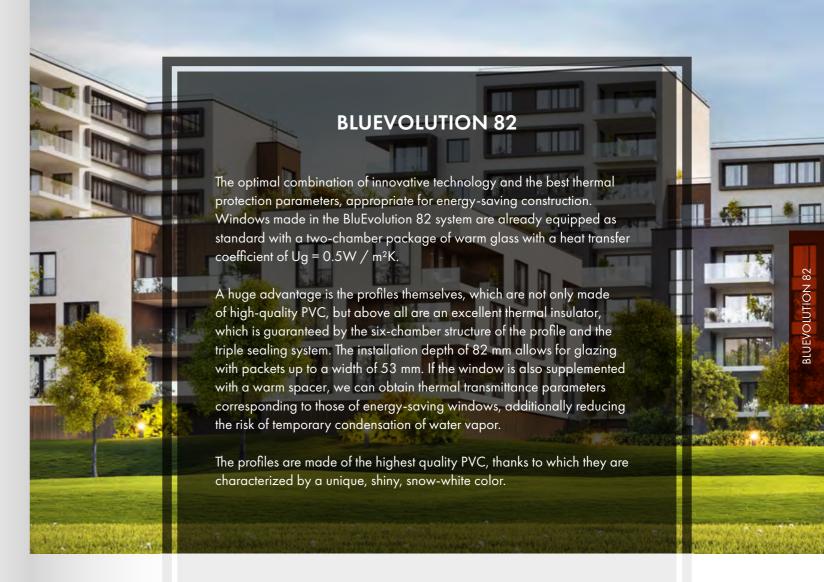


anti-theft points





glazing with packages up



Bluevolution 82 variants





RENOVATION 60 MM | 35 MM

ALUMINIUM COVER

BLUEVOLUTION 92

WINDOW AND DOOR SYSTEM.





3

6

92

Uw for Ug = 0.5 (Ultimate spacer bar)

gaskets

chambers (frame)

construction dept

A

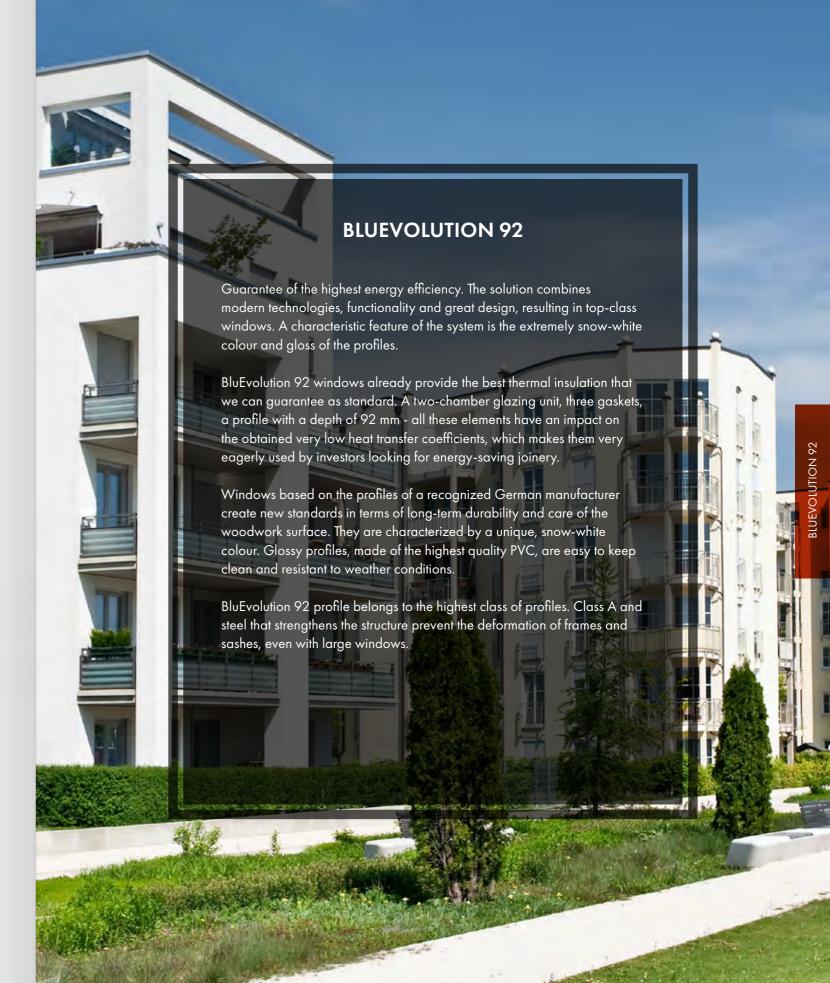
standard fitting with 6 anti-burglary points



characteristic, extremely white



possibility of glazing with



EVOLUTIONDRIVE 82

WINDOW AND DOOR SLIDING SYSTEM.





2

194

Uw for Ug = 0.5 (Ultimate spacer bar) amount of tracks scrolling

construction de

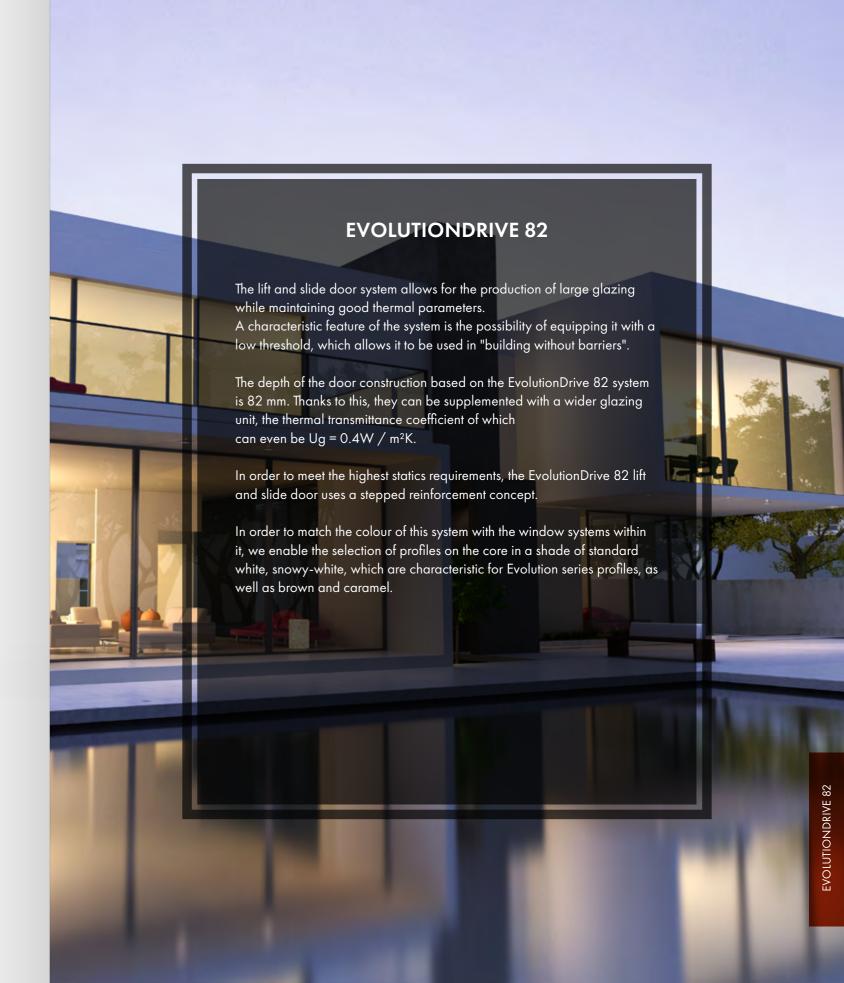




structures up to



glazing with packages



EKOSUN SYSTEMS



| EKOSUN 70 | 54 |
|------------|----|
| | |
| EKOSUN 6 | 56 |
| | |
| EKOSUN 7 | 58 |
| | |
| EKOSUN HST | 60 |



EKOSUN 70

WINDOW AND DOOR SYSTEM



0,96

Uw for Ug = 0.7 (Ultimate spacer bar)

6

chambers (frame)

70

R

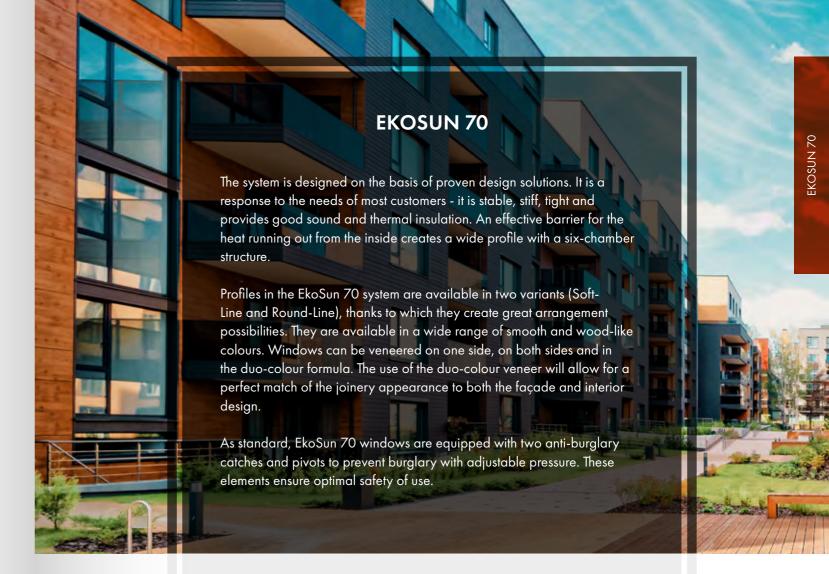




standard fitting with two points anti-burglary points



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



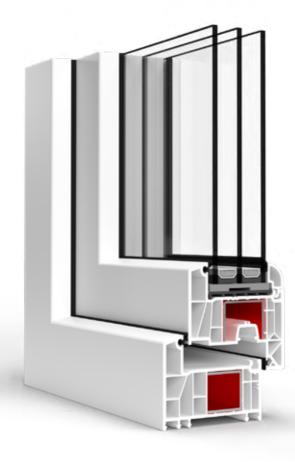




RENOVATION 49 MM

EKOSUN 6

WINDOW AND DOOR SYSTEM





2



81

Uw for Ug = 0.5

aaskets

chambers (frame)

. . .



possibility of making windows with a fixed or movable post

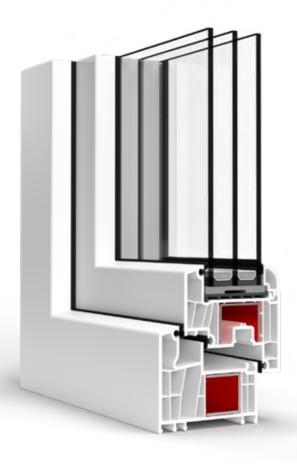


glazing with packages up to



EKOSUN 7

WINDOW AND DOOR SYSTEM





Uw for Ug = 0.5 (Ultimate spacer bar)

chambers (frame)

81

A



optional "A" class profiles



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

58



glazing with packages up



For people looking for energy-saving solutions at a good price, we recommend windows in the EkoSun 7 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 EkoSun 7 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.





ALUMINIUM COVER

EKOSUN HST

WINDOW AND DOOR SLIDING SYSTEM





2

197

Uw for Ug = 0.5 (Ultimate spacer bar) amount of tracks

construction depth





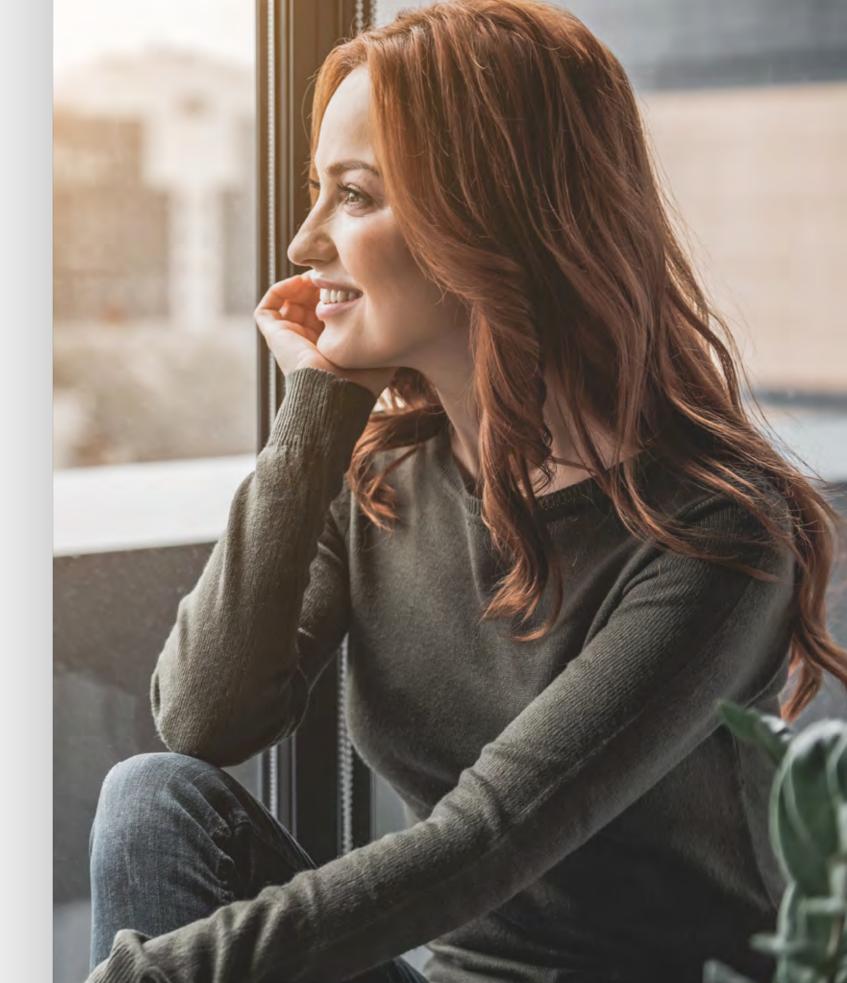




GEALAN SYSTEMS



| \$ 8000 | 66 |
|------------|----|
| S 9000 | 68 |
| GFALAN HST | 70 |



S 8000

WINDOW AND DOOR SYSTEM





Uw for Ug = 0.5 (Ultimate spacer bar)

5/6

chambers (frame)

74

R

glazing with STV



the possibility of using a



5 anti-burglary points per

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 \$8000 is optimized profile geometry in terms of material, which protect natural resources and thus the environment - so important today.

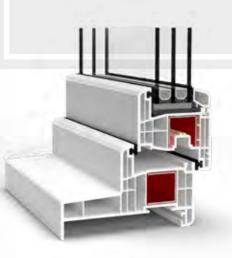
The main thought behind creating the \$8000 system? Tight windows, efficiency and maximum comfort of use! We put it all together and closed within the S8000 system.

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

65





MONOBLOCK

RENOVATION 65 MM | 35 MM

S 9000

WINDOW AND DOOR SYSTEM





Uw for Ug = 0.5(Ultimate spacer bar)

chambers (frame)

82,5

R



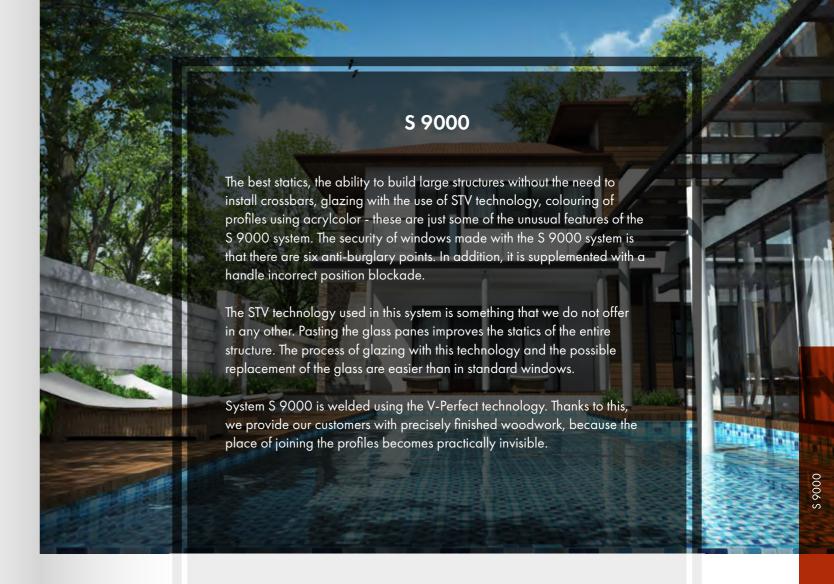
glazing with STV



the possibility of using a

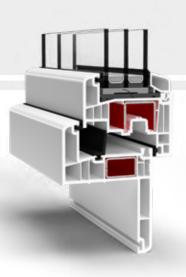


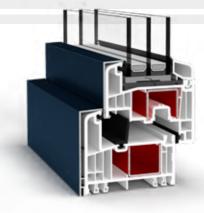
6 anti-burglary points per



S 9000 variants

67



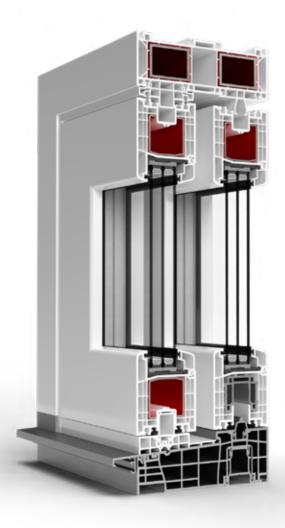


RENOVATION 65 MM | 35 MM

ALUMINIUM COVER

GEALAN HST

WINDOW AND DOOR SLIDING SYSTEM



1,00

Uw for Ug = 0.5 (Ultimate spacer bar) 2

amount of tracks

stallation dept

190

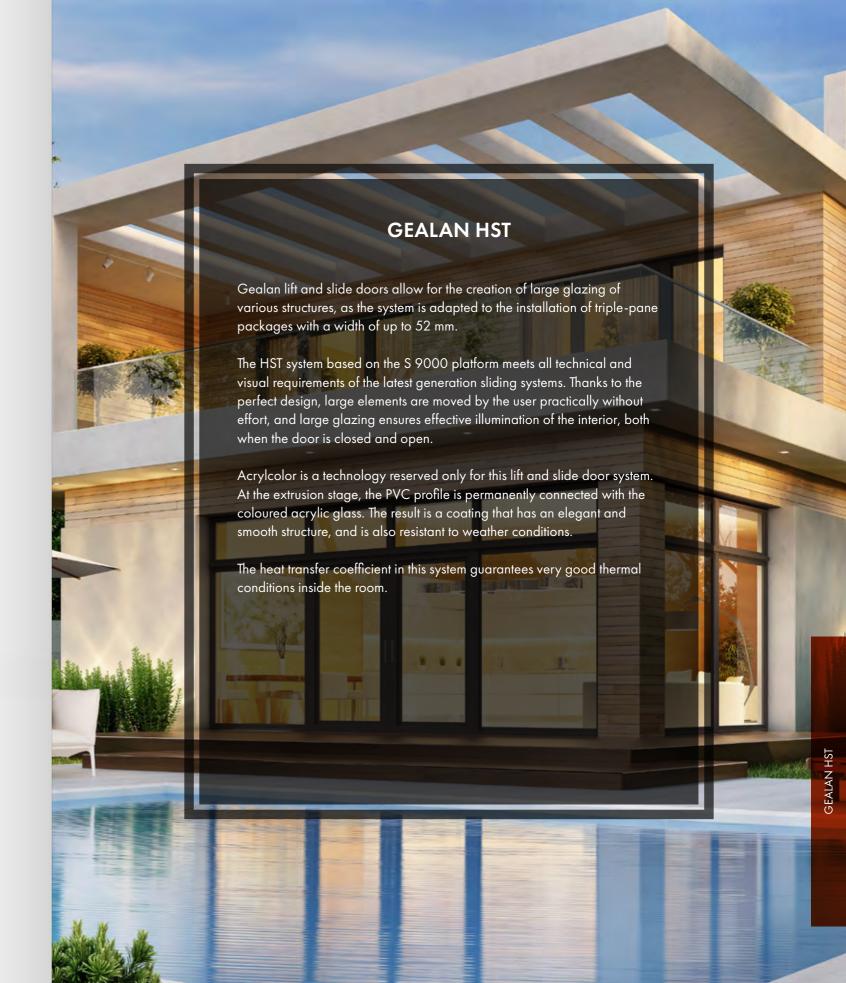
system available in the scheme: A



the possibility of colouring the surface of profiles with the acrylcolor technology



glazing with packages up



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.





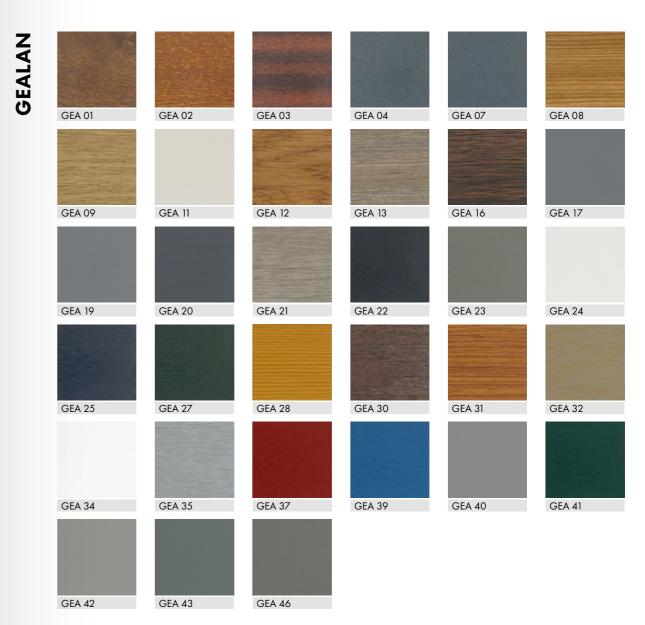


72

SALAMANDER

















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 W / m²K.

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



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

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



78

Fireproof

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

DECORATIVE WINDOWPANES

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 SWISSPACER ULTIMATE

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 Swisspacer Ultimate spacer bar, the Ψ factor is only 0.03 W / m²K. 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 SYSTEM WINDOW SILLS

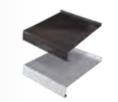
System window sills combine aesthetics with the highest quality.

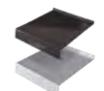
Their smooth surfaces are easy to clean, resistant to bumps and scratches.

Available in various variants and colours matching the colour of the ordered joinery.

EXTERNAL WINDOW 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.





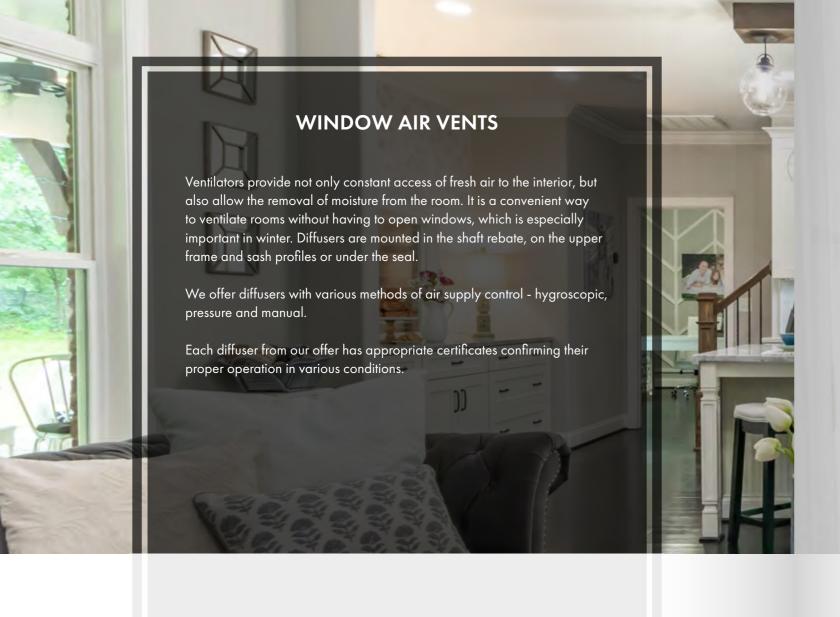




INTERNAL CHAMBER WINDOW SILLS

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.





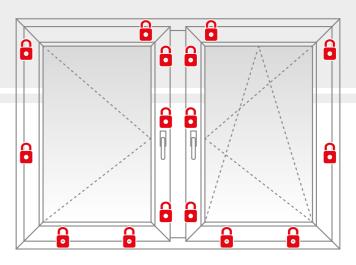
ANTI-THEFT FITTINGS

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

HANDLE ALU





























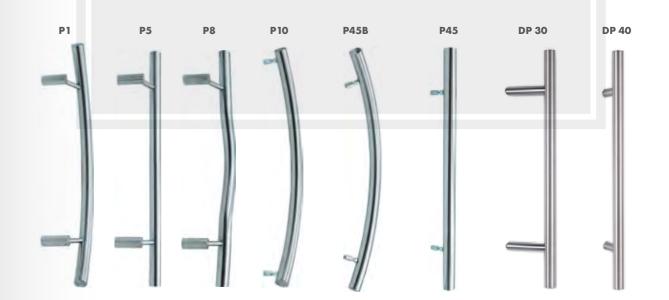


HANDLES AND HANDRAILS

The offer is appreciated for the variety of patterns, colours, functionality of the handles and their anti-burglary properties.

In addition to standard window handles, we also offer handles with a button or key blocking the possibility of opening the window. We also offer a wide selection of shapes and colours, so you can easily match them to the appearance of the selected joinery.

The offer of door handles includes both handles with a standard plate and a separated plate (handle-cylinder). We offer elegant and modern door handles for external doors. They can be of different shapes and lengths. Our offer also includes solutions such as a handle-pull, which limit access to the building from the outside.



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

EXTERNAL DOORS

Modern design, a wide range of colours and a wealth of accessories - these are the features that characterize our door offer. The highest quality materials that we use in the production of entrance doors ensure safety and comfort of use. Depending on the functions they are to fulfil, they can be fully glazed or equipped with decorative panels - flat or embossed.

We offer several door collections. One of them is the door with EkoVitre glass panels. Regardless of the pattern chosen, the panels in this series are equipped with laminated glass. All patterns are perfectly matched to the size of the ordered joinery.

The EkoLine series door panels are characterized by high thermal insulation parameters. All thanks to filling the middle part with XPS foam. The surface of the panel, depending on the type selected, can be flat or embossed. A wide range of patterns also includes glazing with shapes developed by our designers. It is also possible to make a pattern according to your own design.

SECTIONAL GARAGE DOORS

Sectional doors from our offer will work well in both private homes and industrial facilities.

As standard, we offer sectional doors that are safe, original and aesthetically finished. The richness of accessories will ensure that everyone will receive a product that meets their expectations. When supplemented with electric drives, they can become part of a smart home.

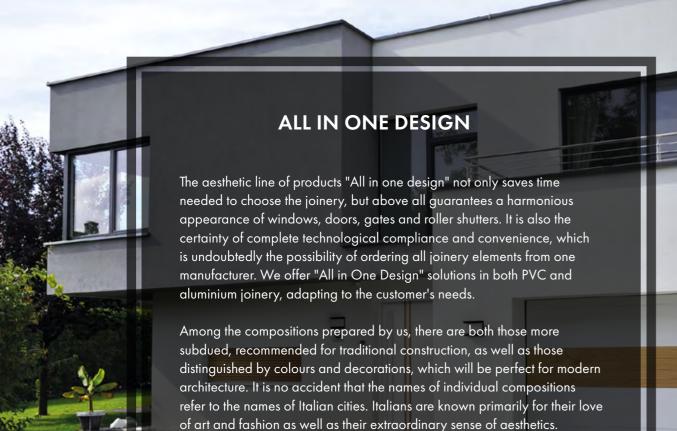
Our offer includes gates with tension springs, torsion springs at the rear and torsion springs at the front. Thanks to this, we avoid the problem of choosing the door to the height of the lintel or the depth of the garage.

See more



See more





FENCES

A fence is not only a way to ensure safety and privacy, but above all it is the crowning achievement of an investment, which is building a house. We offer high-quality, complete fences - spans, gates and wickets. Everything in a dozen or so original designs, refined in every detail. The spans can be filled in a classic, simple or more complex shape.

Standard, Elegance and Prestige - we offer fences made in three styles, thanks to which the customer can easily choose one that will perfectly match the surroundings. The more so that the fences can take any of the colour palettes we offer. An additional advantage is the possibility of creating an individual project, adapted to the topography. Regardless of the appearance and shape of the spans, all fences have one thing in common - solid workmanship.

We offer fences made of galvanized steel and aluminium, which provide excellent corrosion protection.

See more



See more





WOODEN WINDOWS

Naturo joinery is made of many types of wood: Kalzing pine, Kalzing spruce, solid pine, solid spruce, meranti, larch, oak. Regardless of the choice of the type of wood, it is properly selected and glued from 3 or 4 layers with the alternating arrangement of the rings. This, in turn, guarantees the stability and durability of the structure. Our offer of wooden joinery includes windows and doors.

Depending on the client's requirements, interior and facade arrangement, we offer a number of accessories that will emphasize the beauty of the structure.

Optionally, we offer several types of bolections, antique fittings, Retro glazing beads, decorative handles or drip caps with increased durability and an aesthetic wooden finish.

See more

We varnish aluminium joinery according to the RAL and DECORAL

palettes. We also offer different colours when choosing

anodized aluminium.



See more



WINDOWS AND DOORS

Vooden windows are an option for those who appreciate the beauty and atteral character of wood. They will satisfy those who like to enjoy bright and spacious interiors. Wooden windows add character to any order and spacins interiors. Wooden windows and character to any order and spacins interiors. The natural appearance of wood pleases the eye and worms! the instruct.

ne windows are ovaluates in the depths of the traine collistruction - d., os, 4, 72, 76, 68, 08, 68 and 92 mm. They are made of frost types of wood pine, spruce, meteral or ode. Woodes windows are also available with an oluminian conce, which provides additional particular, and and octors and provides unlimited amongement possibilities.



