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**CLASSIC, COMFORTABLE, SAFE, FUNCTIONAL WINDOWS
AND DOORS BY BIAŁOSTOCKA FABRYKA OKIEN**



BIAŁOSTOCKA FABRYKA OKIEN



BIAŁOSTOCKA FABRYKA OKIEN

Białostocka Fabryka Okien is a Polish manufacturer of PVC and aluminium windows and doors. Our products meet the highest standards, as we pay much attention to the quality of window components (we work with top suppliers: Gealan, Blyweert, GU, Hoppe, Sobinco etc.), and to the production process (the production plant has recently been fully retooled). In our product range customers will also find: garage gates, window sills, roller shutters, insect screens, window blinds and shades, and ventilation grills.

BFO was founded in 2009, and has been located in Białystok, the biggest city in the north-east Poland. The company employs 35 people. The production plant occupies an area of 650 m², and the office – 280m². We sell windows and doors in Poland (85%) and abroad (Belgium, Sweden, the UK and France - 15%). Białostocka Fabryka Okien has developed enormously since its foundation, increasing sales year by year, which was an incentive to expand further at European markets. In 2015 we are present at three construction trade fairs: in (Malmö) Sweden, (Namur) Belgium and (Minsk) Belarus.

So what makes us the number-one choice?

First, you buy high-quality products for reasonable prices.

Second, you are up to date on progress. You don't need to worry about uncertain delivery dates and unannounced changes.

Third, your order is delivered on time.

High-quality, market-oriented products, competitive prices and effective customer service enable us to maintain high levels of customer satisfaction and loyalty.



S 8000 IQ

inside view



outside view



Design

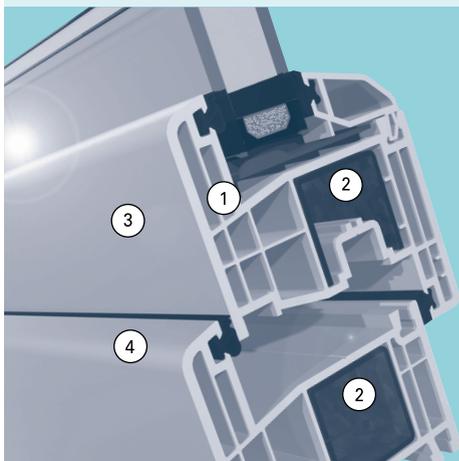
S8000IQ - the classic among the systems. Elegant profiles in the S8000 IQ series are optically convincing with their modern, straightforward design and soft contours. Coloured profiles (available in white, acrycolor or wood decor) will make any house as individual as its inhabitants, or turn any building into an eye-catcher.

Technique

A wide construction depth of 74 mm and 6 chambers ensure excellent thermal and sound insulation. Very good structural stability is reached thanks to large steel stiffeners and a wide construction depth. To prevent mould and improve the room climate, the patented GECCO (GEALAN CLIMA CONTROL) ventilation system can be installed.

8095

frame 8001 / sash



- 1** six chambers for excellent thermal insulation
- 2** very good structural stability thanks to large steel stiffeners in frame and sash
- 3** available in a wide selection of acrycolor tones and wood decors
- 4** on the outside: classic contours with rounded edges

frame 8001 / sash 8092



- 1** more stability thanks to larger steel stiffeners
- 2** smooth and wide rebate is easy to clean
- 3** available in a wide range of colours (acrycolor and wood decors)

Frame	Steel in frame	Sash	Steel in sash	Uf	Uw for the reference window 1,23 x 1,48 m		
					Ug 0,7	Ug 0,6	Ug 0,5
8001	8716	8095	8716	1,31	0,97	0,90	0,83
8001	8716	8095	STV	1,24	0,95	0,88	0,81
8001	8716	8095	8716+STV	1,31	0,97	0,90	0,83

S 8000 IQ with a semi-flush sash

inside view



outside view



Design

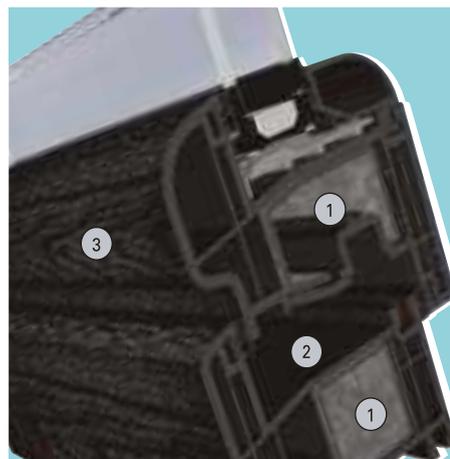
When choosing new windows, the functionality of the window is just as important as the aesthetic aspect. Rounded contours of the sash and bevelled glazing beads make these windows exceptionally beautiful.

Technique

The S8000IQ series ensure excellent thermal and sound insulation thanks to 6-chamber profile and the sash construction depth of 84.5 mm. Large steel stiffeners in the frame and sash ensure very good rigidity and enable to install large windows resistant to strong wind. To prevent mould and improve the room climate, the patented GECCO (GEALAN CLIMA CONTROL) ventilation system can be used. **8096**

frame 8001 / sash

- 1 six chambers for excellent thermal insulation
- 2 smooth and wide rebate is easy to clean
- 3 on the outside: classic contours with rounded edges



frame 8001 / sash 8068

- 1 very good stability thanks to large steel stiffeners in the frame and sash
- 2 matching colour of the rebate
- 3 wood decors to create different looks

S 8000 IQ Plus with 83mm construction depth

widok od wewn¹trz

widok z zewn¹trz

Design

The new generation of window profiles S 8000 IQ Plus is the best choice for modern and elegant buildings. The design of the S8000IQ Plus series is a result of collaborative effort of GEALAN's constructors and a group of designers. Attractive, rounded contours of the frame give these windows vibrant yet harmonic appearance. Their outstanding look catches the eye. The S8000 IQ profile series are available in white or wood decor colours.

Technique

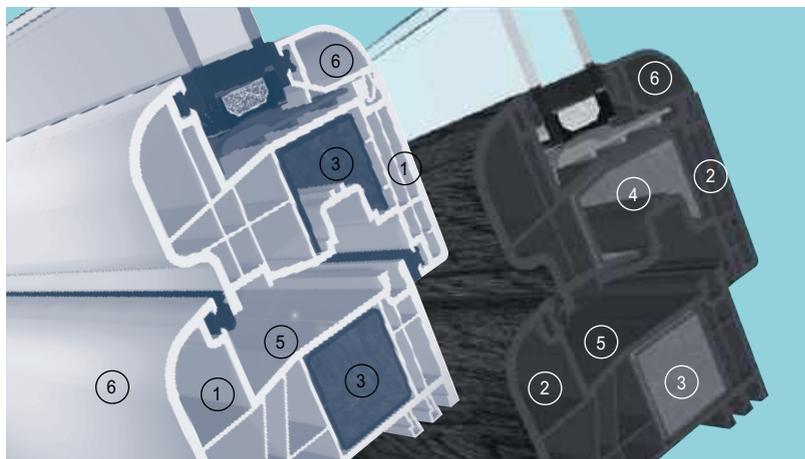
Improving the thermal insulation of a building is a core element of GEALAN's new six-chamber system with a construction width of 83mm: the S8000 IQ plus rebate seal system. It is designed especially for these constructions where the window frame needs to be over 80 mm wide. With a six chamber design and increased width, this system offers ideal protection from cold and noise, helps reduce heating costs and makes an active contribution to sinking CO2 emissions. Large steel stiffeners also add to structural rigidity. The system proves highly resistant against forced entry. The new frame system S 8000 IQ plus offers a wealth of combination possibilities thanks to full compatibility with all sashes of the standard S 8000 IQ system (classic with stepped sash, and design with semiflush sash). To prevent mould and improve the room climate, the patented GECCO (GEALAN CLIMA CONTROL) ventilation system can be installed.

1 Outstanding

frame 5001 / sash 8096

and a deep construction depth of the frame

- 2 Excellent heat and sound insulation thanks to five chambers in the sash and a deep construction depth of the frame
- 3 Very good rigidity thanks to large steel stiffeners
- 4 Outstanding stability thanks to large steel stiffeners in the sash
- 5 Easy to clean thanks to smooth and wide rebate
- 6 Classic appearance thanks to a rounded frame, and a round glazing bead



Frame	Steel in frame	Sash	Steel in sash	Uf	Uw for the reference window 1,23 x 1,48 m		
					Ug 0,7	Ug 0,6	Ug 0,5
5001	8716	8096	8716	1,23	0,95	0,88	0,81
5001	8716	8096	STV	1,15	0,92	0,85	0,79
5001	8716	8096	8716+STV	1,24	0,95	0,88	0,81

S 9000

Convincing arguments

Entirely future-proof

With the S 9000 profile system, you get a state-of-the-art advanced system that can be used equally both for new buildings and for refurbishment. This way, S 9000 develops into a new platform for building windows, front doors, and tilt/slide doors in GEALAN's product portfolio. Furthermore, the new, installation deep system convinces by the following arguments:

Versatile

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

**82.5
mm**

Powerful

U_i up to
0,89
W/m²K

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

Design-oriented



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

Recyclable



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

S 9000

STV® integrated

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



IKD® integrated

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



S 9000 system platform

- + Windows
- + Lift/slide doors
- + Front doors



S 9000

S 9000 combined system

All advantages in one system

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

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



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

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

82.5
mm

S 9000



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

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

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

IKD®
Intensive core
insulation

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

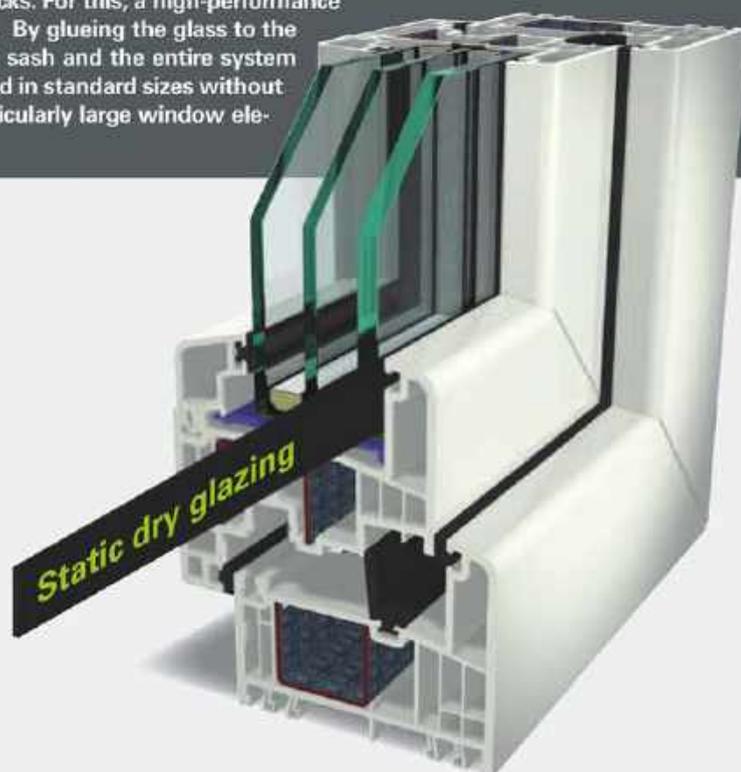
Enhanced statics

Thanks to STV® the static dry glazing

STV®
Static dry glazing

The STV® adhesion technology (static dry glazing) developed by GEALAN comprises the glueing of glass and sash profile while maintaining the usual use of glazing blocks. For this, a high-performance adhesive tape specifically designed for window construction is used. By glueing the glass to the sash profile, the stability of the glass window is transferred into the sash and the entire system becomes more intrinsically stable. This way, elements can be produced in standard sizes without using any steel. In the combination STV® with steel in the sash, particularly large window elements can be produced.

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



GECCO ventilation systems

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



GECCO 3 open



GECCO 3 closed



GECCO 4 open



GECCO 4 closed

Air Watch

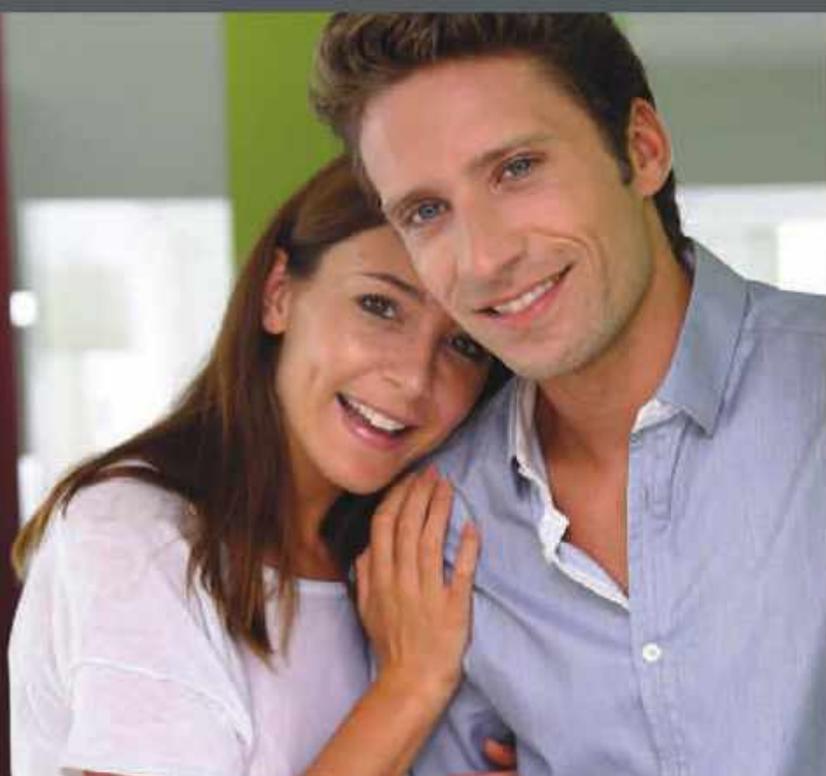
Even if the patented GECCO ventilation system provides for controlled basic ventilation, regular airing is indispensable. Therefore, the inside air must be changed entirely from time to time. GEALAN's Air Watch indicates its moisture content in a simple manner.

S 9000

Front door variants

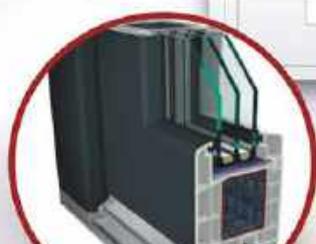
Welcoming elegance and classicism

Front doors are the business card of the house and provide the entrance area with charm and aesthetics. With its new S 9000 front door system, GEALAN offers the right product to cater for all tastes. You can decide between the classic and the wing overlapping variant. And thanks to the flexible colour design of the numerous decorative foils, you may adapt your front door to the overall visual appearance of your façade.



Classicism

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



Design

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



Acrylcolor

h T

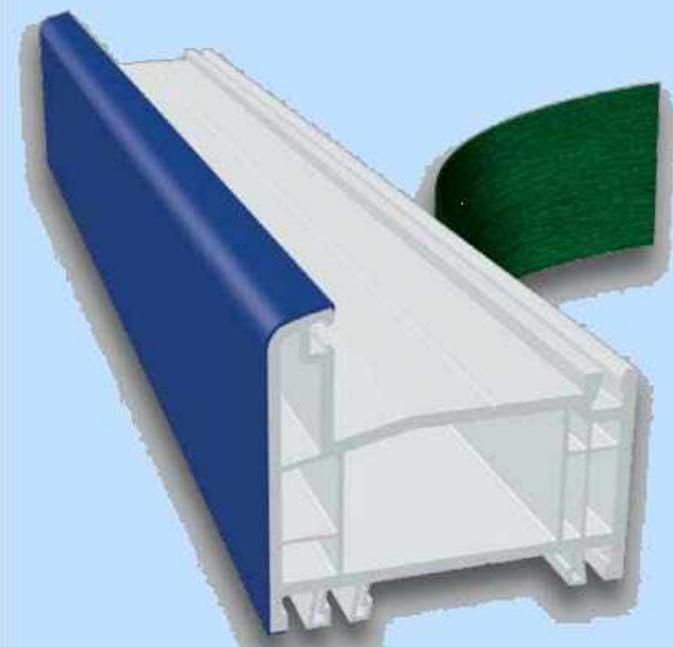


C

More than 30 years ago GEALAN developed an innovative technology to combine the properties of PVC and acrylic glass in a single product. Acrylcolor windows are the first choice for those who look for high-quality coloured windows.

In the process of co-extrusion white PVC and dyed acrylic glass are inseparably bonded in a single piece. Melting together the two materials creates a semi-matt finish of the profile surface - resistant to sun, wind, rain, and cold, and easily able to withstand temperature changes. An acrylic colour profile is two-coloured from the moment it leaves the extruder nozzle.

PERFECT COMBINATION



OUTSIDE ACRYLCOLOR
INSIDE WOOD DECOR

STANDARD COLOURS

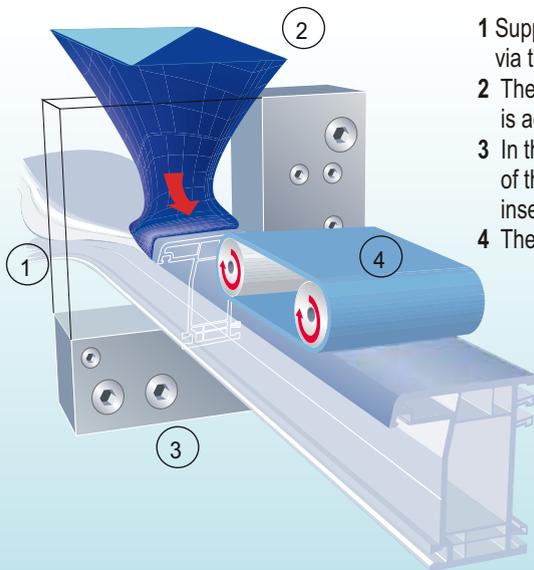
7015	7016	7040	8014	8022	9006	silver*
3011	6009	7039	9010	88703*	* metallic colours	

NON-STANDARD COLOURS

1000	1001	1004	1006	1013	1014	1015	1016	1017	1019
3000	3005	3012	3014	4004	5001	5002	5005	5007	5009
5011	5014	5018	5020	6000	6006	6007	6008	6005	6011
6013	6014	6015	6017	6019	6021	6026	6027	7000	7001
7003	7004	7006	7010	7011	7012	7013	7023	7024	7038
7030	7031	7032	7033	7035	7036	7037	9001	7043	8000
8001	8003	8011	8012	8016	8017	8023	9002	9011	9016
gold*	88703								

Acrylcolor

Acrylcolor and aluminium windows after 25 years of being exposed to sun



- 1 Supplying PVC melted mass via the main extruder.
- 2 The dyed acrylic melted mass is added using a co-extruder.
- 3 In the co-extrusion tool, both of the liquid components are inseparably bonded.
- 4 The profile surface is polished.

Acrylcolor...



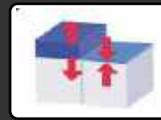
is not the same as decorative foil



is not the same as varnish



is resistant to spalling or chipping



layer is 0.5 mm thicker than decorative foil or a layer of varnish



is scratch-resistant and easy to polish



is resistant to weather conditions, such as solar radiation



is resistant to dirt and water



shades include metallic colours (the aluminium effect)

Aluminium doors provide aesthetically pleasing solutions for front and back doors, patio doors and bifolding doors.

They have the advantage of being much slimmer than their PVC counterparts and as a material aluminium is far stronger.

The decorative aluminium panels used in entrance doors are far more secure than their plastic panel counterparts by nature of their construction alone.

The powder coating process used in aluminium today means powder coated aluminium product will retain their gloss levels and appearance for many years to come. Blyweert's paint shop in Czosnów (Poland) is a licenced coater (It has been granted the Qualicoat licence).

Aluminium products are available in any RAL colour, including dual colours (different colours inside and outside), as well as a different colour door frame and door leaf if desired.

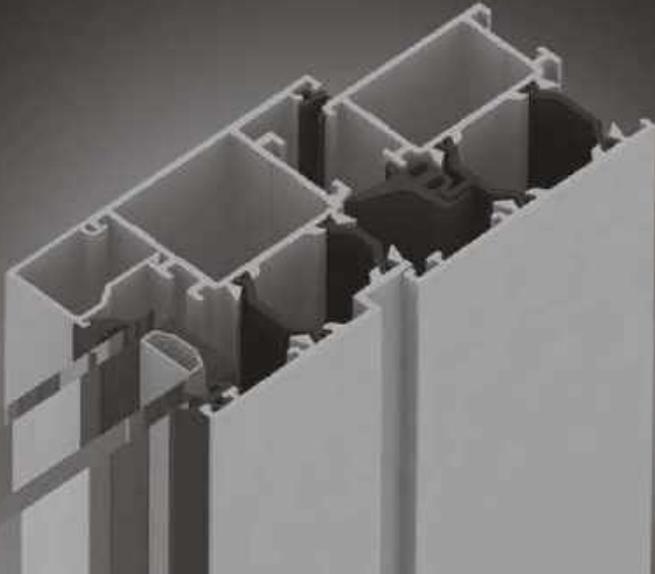
Aluminium windows and doors come in textured, matt or glossy coatings.

Aluminium commercial doors are widely used and are the first choice in high traffic applications such as shops, schools and offices.

Aluminium windows & doors

blyweert
aluminium

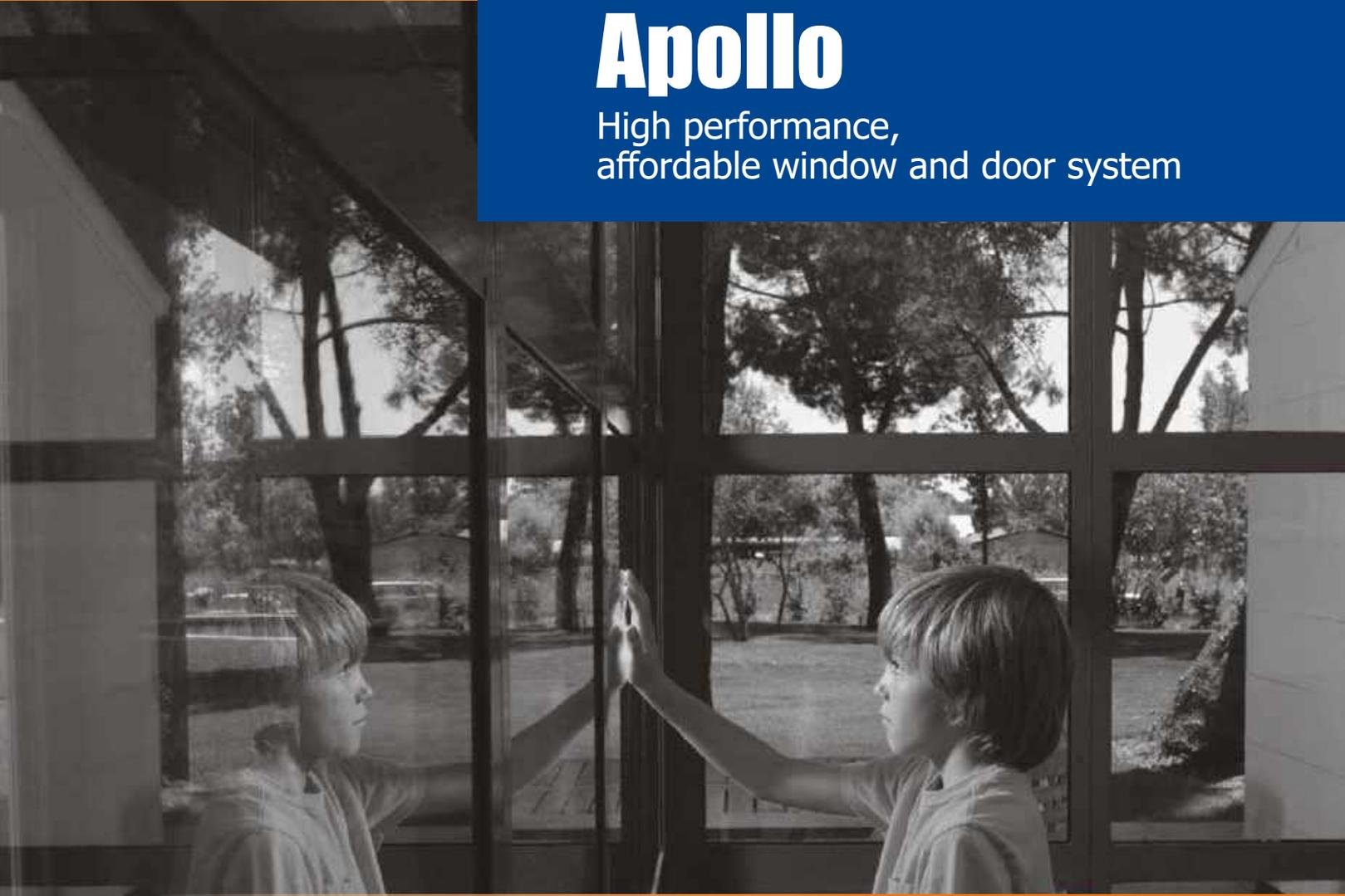




ALUMINIUM WINDOW
AND DOOR SYSTEMS

Apollo

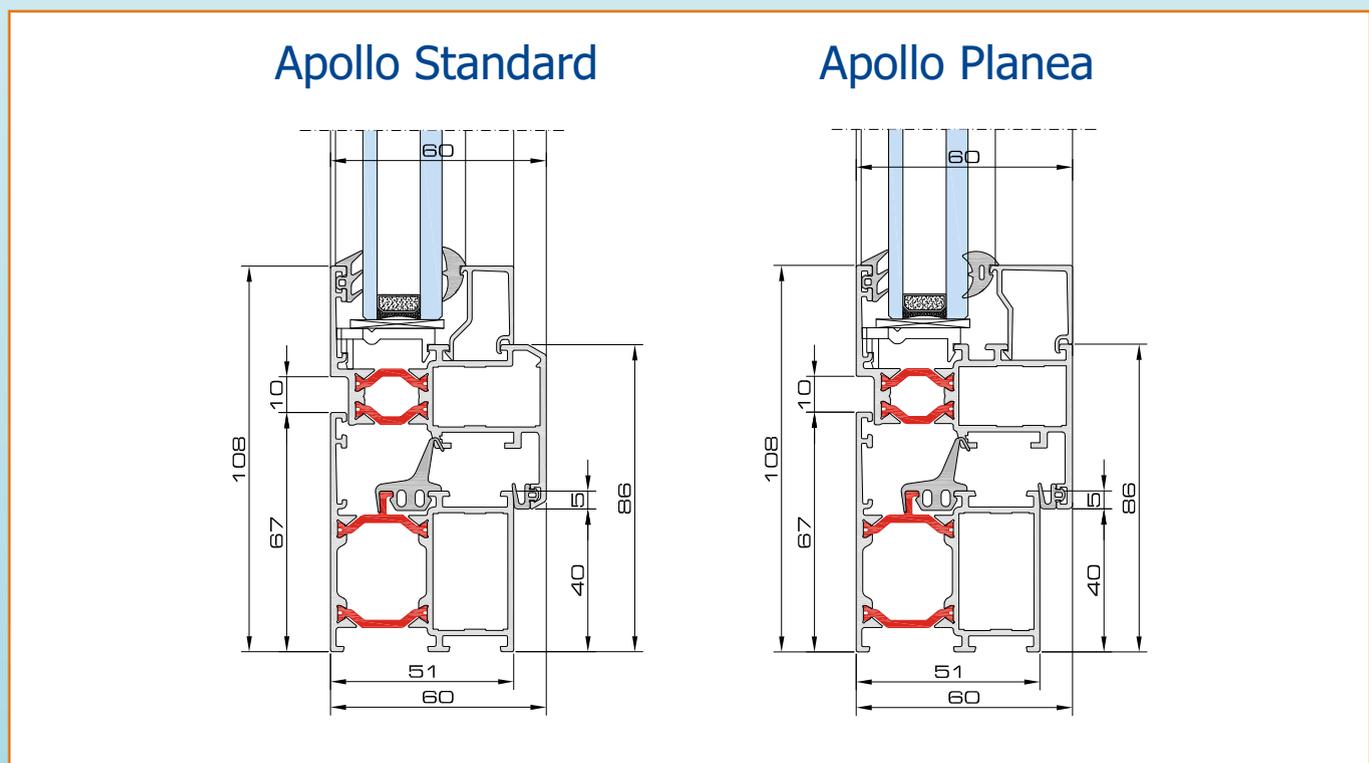
High performance,
affordable window and door system



 **BIAŁOSTOCKA FABRYKA OKIEN**

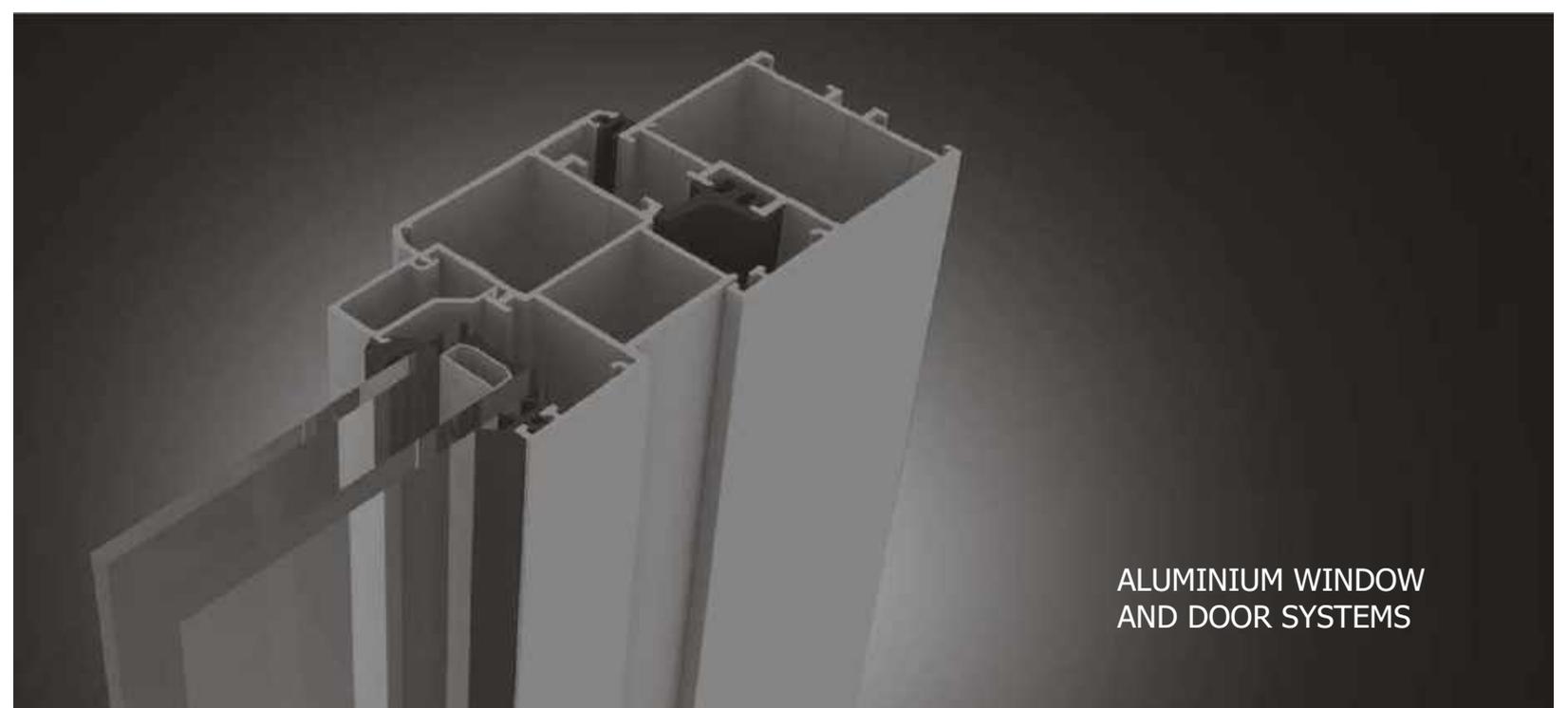
Aluminium window and door systems

- Apollo is a 2-chamber high performance aluminium window and door system designed to offer the consumer an affordable aluminium window with high specification.
- Thermal insulation value - U_f between 2.6 W/m K and 3.1 W/m K.

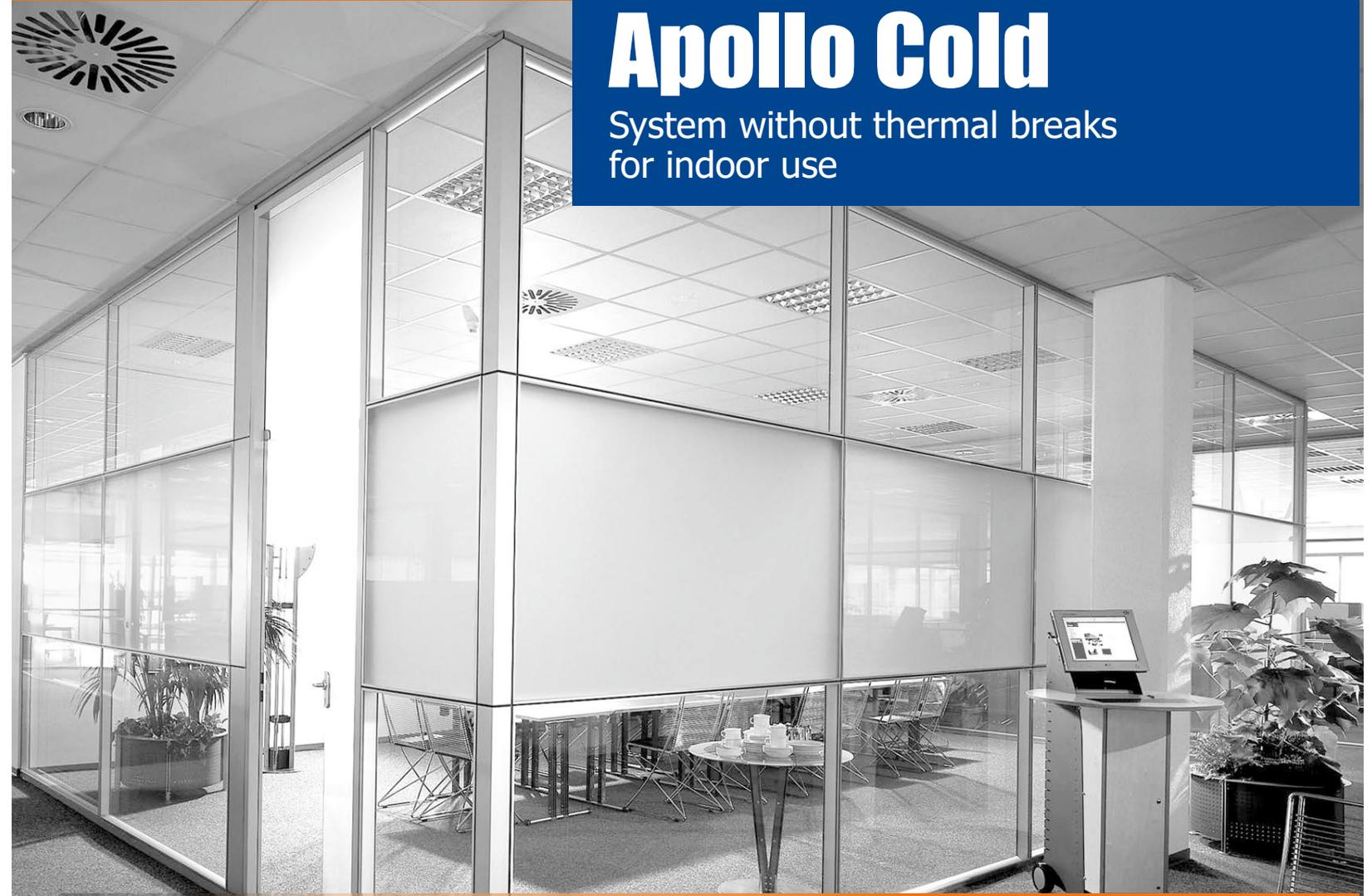


Technical specification	
Window profile width	Frame 51 mm Sash 60 mm
Door profile width	Frame 67 mm Sash 67 or 76 mm
Galzing size range	12 – 60 mm (doors) 3 – 51 mm (windows)





ALUMINIUM WINDOW
AND DOOR SYSTEMS



Apollo Cold

System without thermal breaks
for indoor use

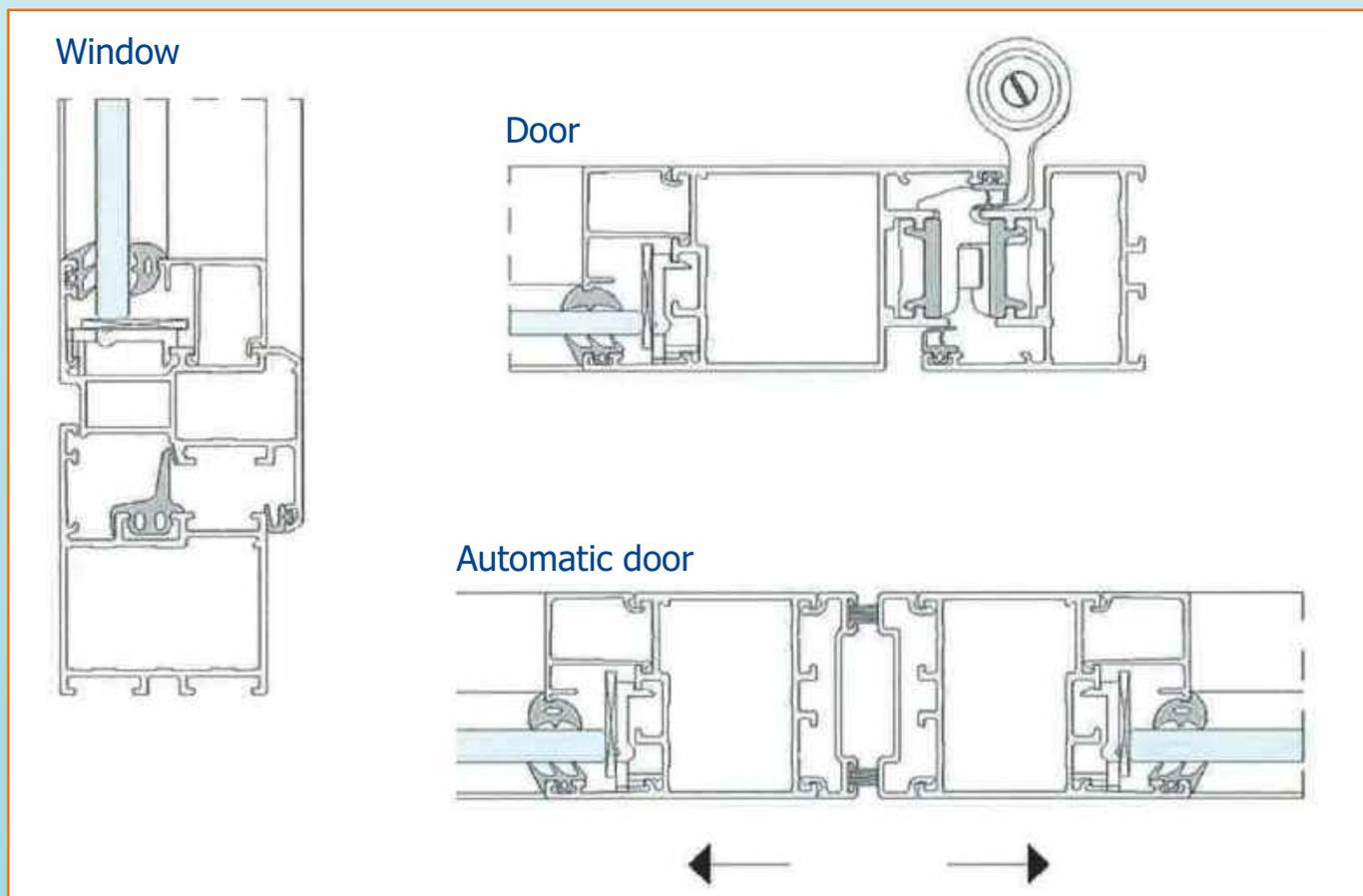


BIAŁOSTOCKA FABRYKA OKIEN

Apollo Cold

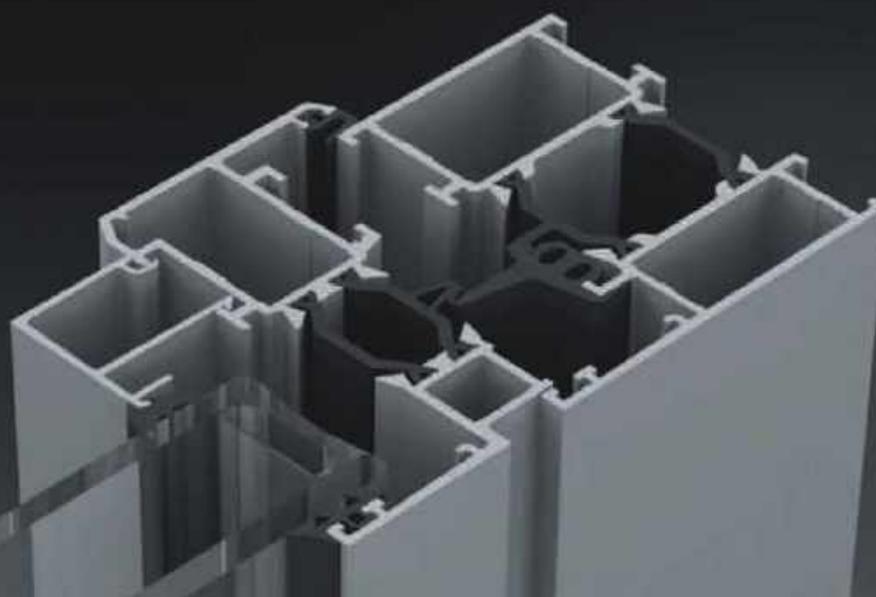
Aluminium window and door systems

- Apollo Cold is an aluminium window and door system without thermal breaks, designed primarily for indoor use.
- The system is used in the case when thermal insulation is not necessary, for example in interior doors, partition walls and in vestibules.
- Except standard solutions the system offers automatic and manual sliding doors.



Technical specification

Window profile width	Frame 51 mm
	Sash 60 mm
Door profile width	Frame 51 mm
	Sash 51 mm
Glazing size range	4 – 35 mm (doors and fixed glazing)
	5 – 44 mm (windows)



ALUMINIUM WINDOW
AND DOOR SYSTEMS

Hercules

Windows and doors
of high structural stability

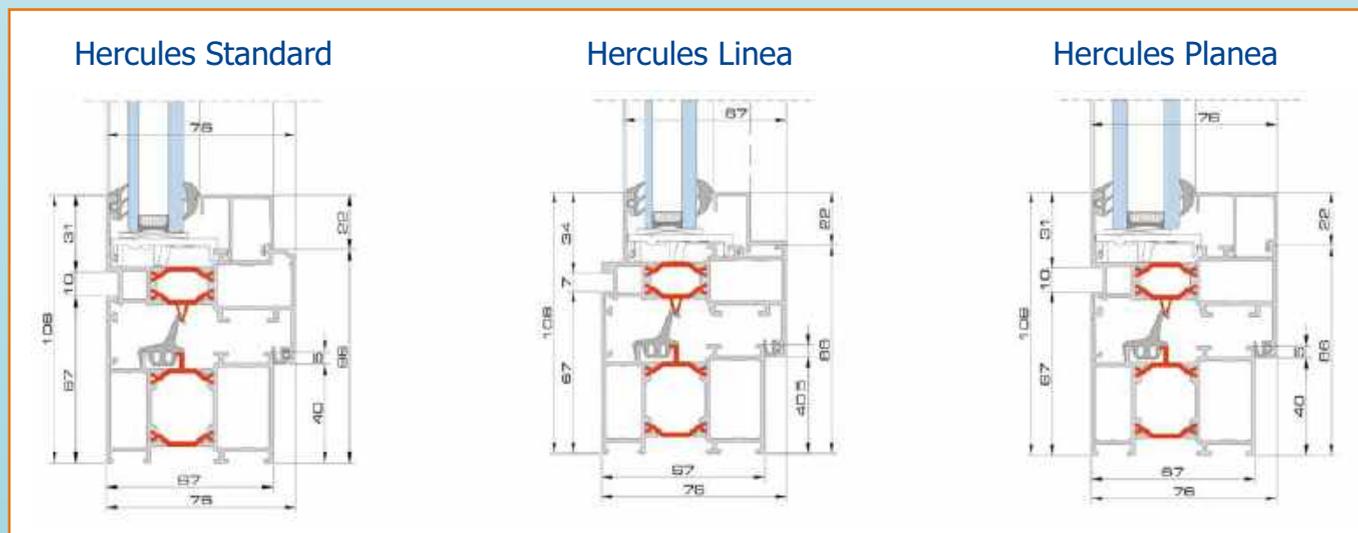


BIAŁOSTOCKA FABRYKA OKIEN

Hercules

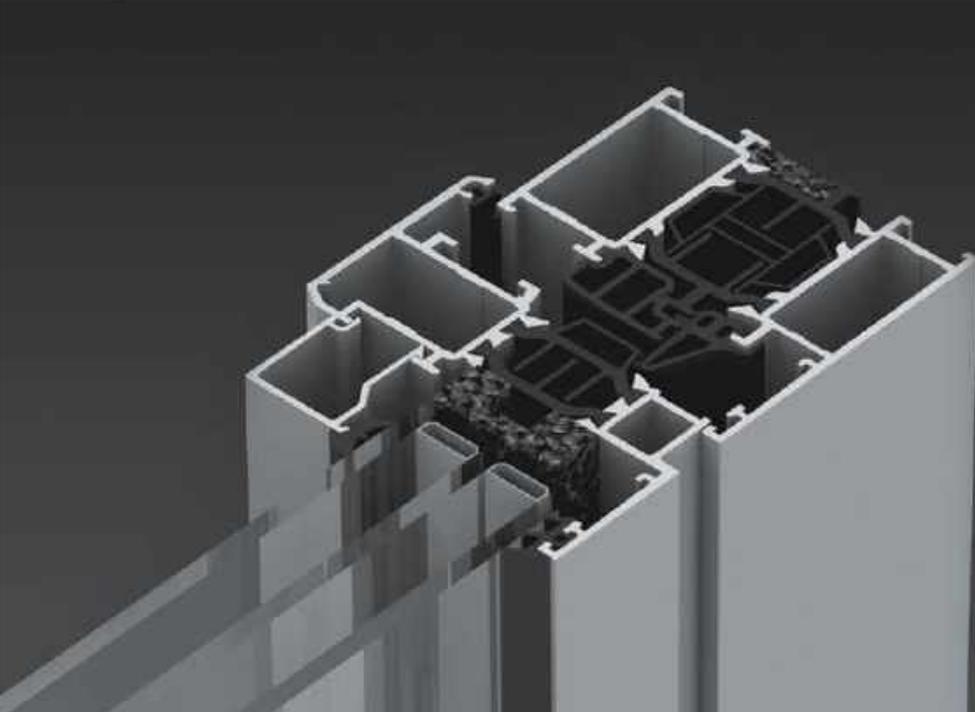
Aluminium window and door systems

- Hercules is a 3-chamber high performance aluminium window and door system with the construction depth of 67 mm.
- Both frame and sash profiles incorporate a third chamber allowing greater strength, functionality and thermal performance.
- Hercules incorporates polyamide thermal breaks strengthened with fibreglass which ensure high thermal insulation ($U_w = 1,46 \text{ W/m}^2\text{K}$, depending on the selected frame-panel combination and the type of glazing).
- Hercules provides a solution to most standard window and door sizes.
- Hercules is available in three different styles: Standard, Linea and Planea, each offering a slightly different aesthetic depending on the design and application required.
- Thermal insulation value $1,97 < U_f < 2,82$



Technical specification	
Window profile width	Frame 67 mm Sash 76 mm
Door profile width	Frame 67 mm Sash 67 or 76 mm
Galzing size range	12 – 60 mm (doors) 3 – 51 mm (windows)





ALUMINIUM WINDOW
AND DOOR SYSTEMS

Triton and Triton HI

The highest insulation standards



BIAŁOSTOCKA FABRYKA OKIEN

Triton and Triton HI

Aluminium window and door and systems

Triton

- Triton is a 3-chamber, high performance aluminium window and door system.
- Both frame and sash profiles incorporate a third chamber allowing greater strength and stability.
- Thermal insulation value - $U_w = 1,49 \text{ W/m}^2\text{K}$, depending on the selected frame-panel combination and the type of glazing.
- Triton is available in 3 different styles: Soft-Line, Square and Linea, each offering a slightly different aesthetic depending on the design and application required.

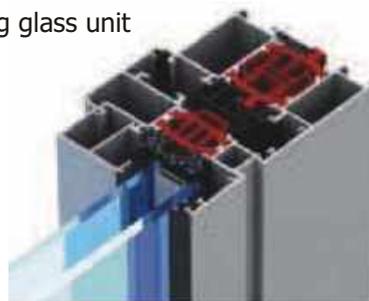
Triton HI

- Triton HI is a high insulation aluminium window and door system with thermal breaks, designed for outdoor use.
- 3-chamber profiles with the construction depth of 72 mm, patented Spidertechnology® ABS strips and other incorporated isolating elements ensure optimal thermal insulation.
- A continuous plastic insulation strip in PE foam neutralises considerably the heat losses around the glazing.
- Thermal insulation value $1,34 < U_f < 1,75$

The system is used in the constructions which require high thermal insulation.

Optimal insulation

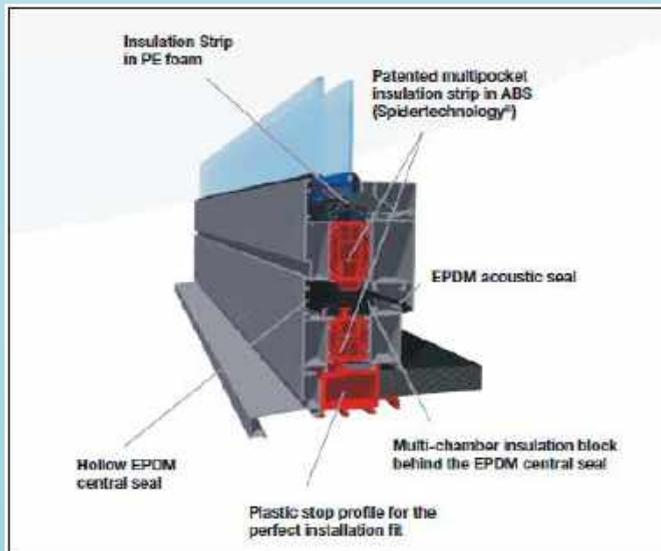
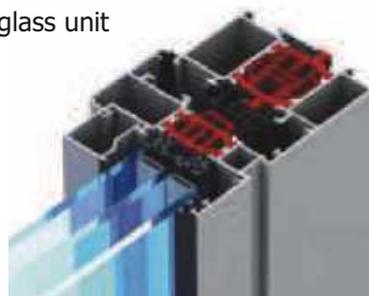
- Double-pane insulating glass unit
- $U_g = 1,0 \text{ W/m}^2\text{K}$
- $U_w = 1,3 \text{ W/m}^2\text{K}^*$



Optimal insulation +

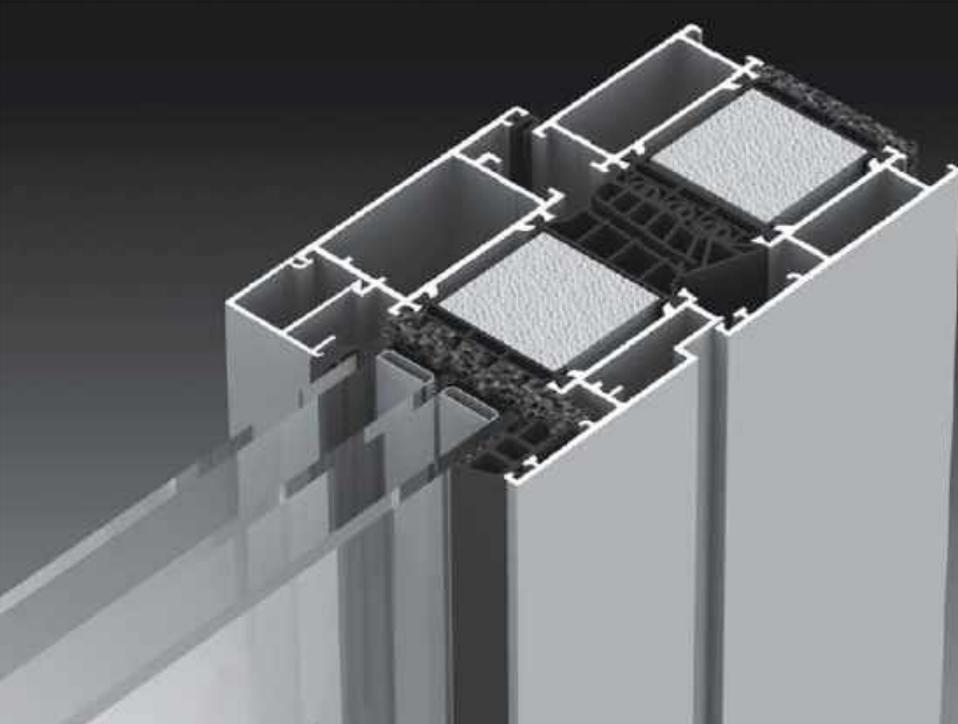
- Triple-pane insulating glass unit
- $U_g = 0,6 \text{ W/m}^2\text{K}$
- $U_w = 1,0 \text{ W/m}^2\text{K}^*$

* one-sash turn&tilt window (1230x1480 mm)



Technical specification

Window profile width	Frame	72 mm
	Sash	81 mm
Door profile width	Frame	72 mm
	Sash	72 mm
Glazing size range		14 – 58 mm (doors)
		19 – 60 mm (windows)



ALUMINIUM WINDOW
AND DOOR SYSTEMS



Olympia HI

Maximal thermal insulation
for passive buildings

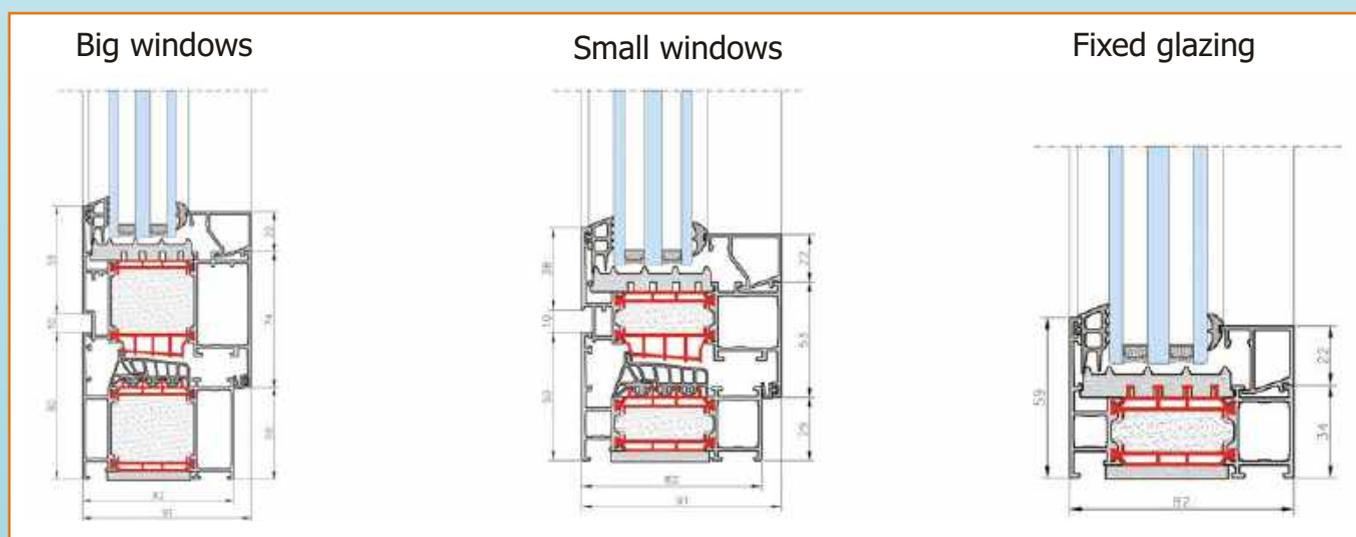


BIAŁOSTOCKA FABRYKA OKIEN

Olympia HI

Aluminium window and door systems

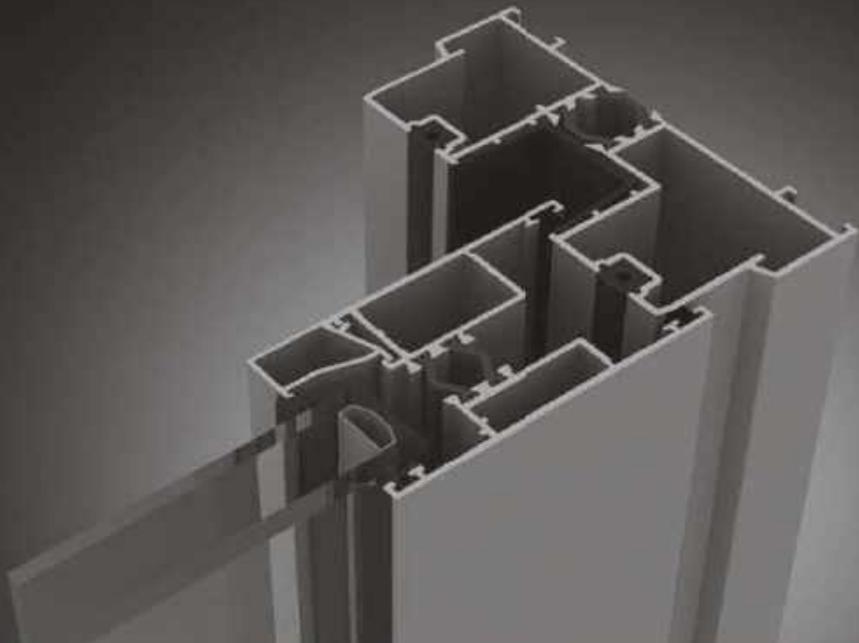
- Olympia HI is a high insulation aluminium window and door system with thermal breaks, designed for outdoor use.
- 3-chamber profiles with the construction depth of 82 mm provide maximum thermal insulation.
- The system was designed in response to growing market demand for exterior joinery for passive houses.
- Olympia HI includes a numbers of insulating elements to meet highest insulation standards ($0,79 < U_f < 1,01 \text{ W/m}^2\text{K}$).
- The construction of the profile ensures excellent stability.



Technical specification

Profile width	Frame 82 mm
	Sash 91 mm
Galzing size range	13 – 60 mm (doors)
	22 – 69 mm (windows)





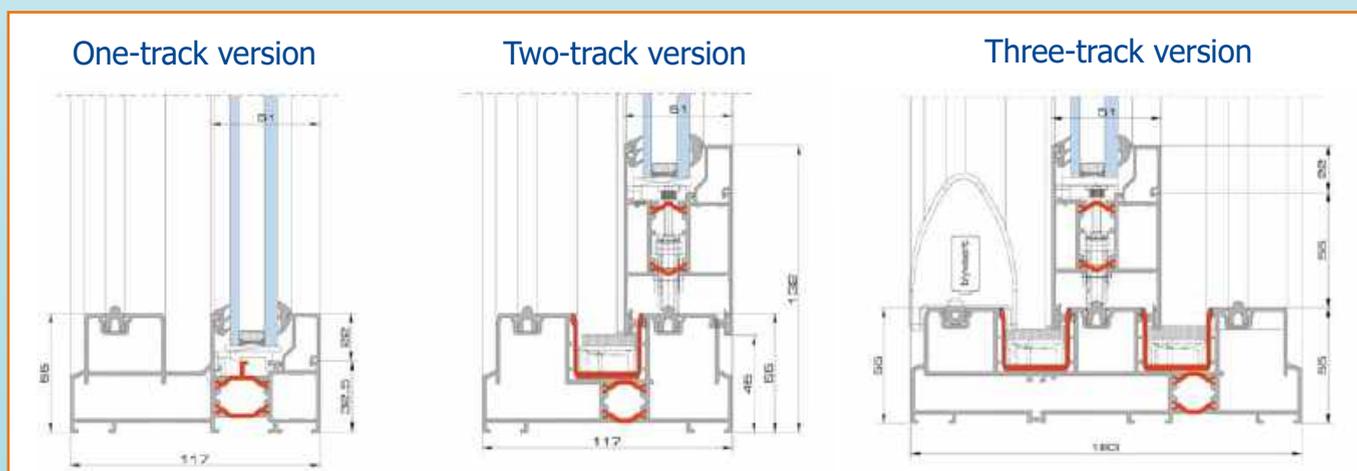
SLIDING DOOR SYSTEMS

Hestia

Aluminium sliding doors

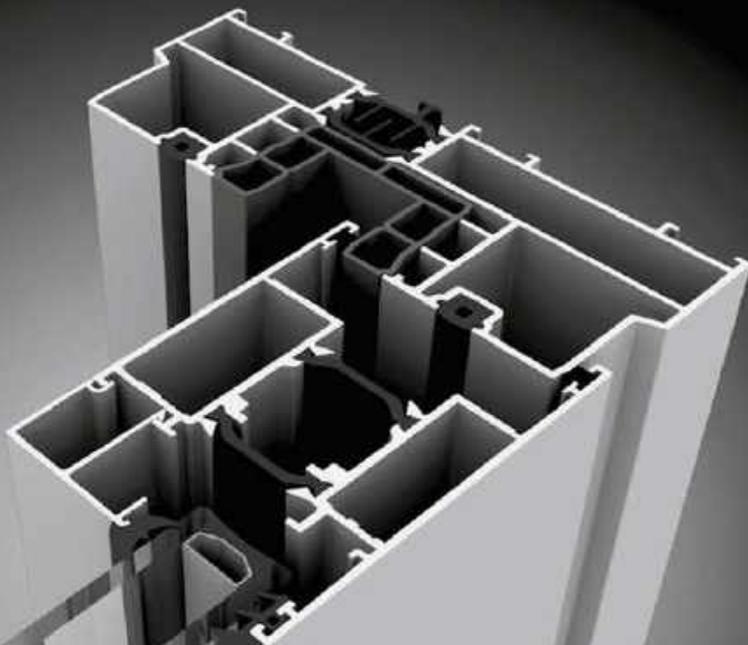
Sliding door systems

- Hestia is an aluminium sliding door system made of high-quality aluminium, designed for outdoor use.
- 3-chamber profiles with the construction depth of 117 mm and thermal breaks provide very good stability and thermal insulation.
- The maximum weight of a sliding door leaf is 200 kg with two double sliding guides and 300 kg with four double sliding guides.
- Hestia is available in one, two and three-track versions.
- Thermal insulation value $U_f > 2,84$



Technical specification

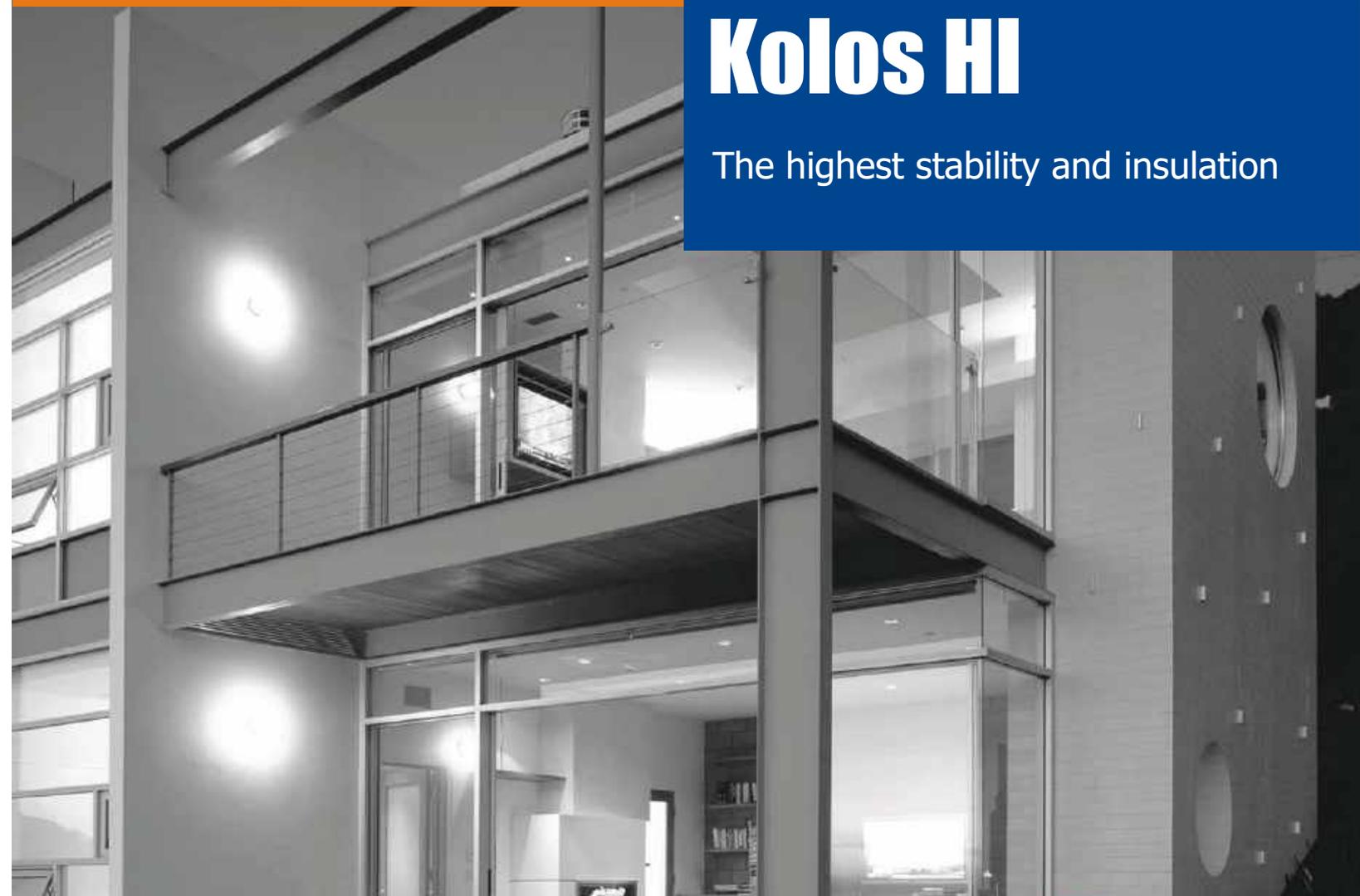
Profile width	Frame	117 mm
	Leaf	51 mm
Galzing size range	1 – 35 mm (door leaf)	
	3 – 37 mm (fixed glazing)	



SLIDING DOOR SYSTEMS

Kolos HI

The highest stability and insulation



BIAŁOSTOCKA FABRYKA OKIEN

Kolos HI

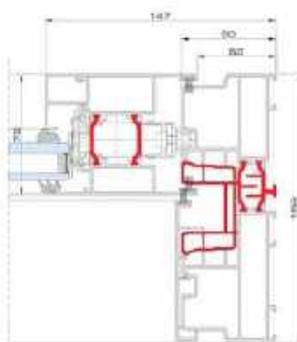
Aluminium sliding door system

- Kolos HI is a high insulation aluminium sliding door system, using patented Spidertechnology, which ensures high thermal insulation.
- Kolos HI is available in single and double track configurations.
- Kolos HI is compatible with the Triton HI system.
- Available in the slide and lift/slide versions.
- Thermal insulation is a key feature of the Kolos sliding door system:
 $U_w = 1.44 \text{ W/m}^2\text{K}$ (tested with a double sliding frame: $2 \times 4000 \times 2900$; double glass $U_g = 1.0$)
- $U_f > 2.06$

Kolos HI, two-track vertical section



Kolos HI, two-track horizontal section

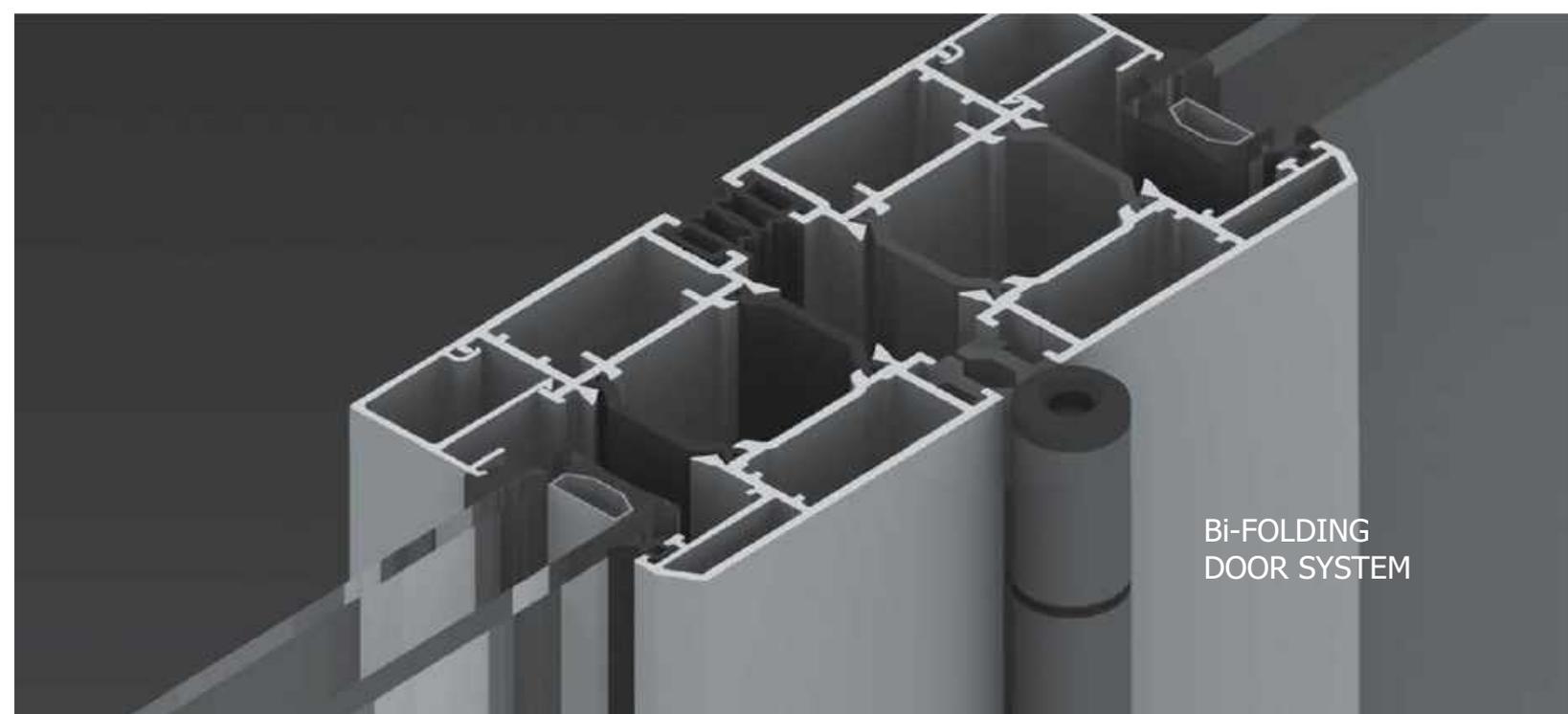


Kolos HI, floating mullion section



Technical specification

Profile width	Frame	158 mm
	Sash	72 mm



Bi-FOLDING
DOOR SYSTEM

Harmonia

Bi-folding doors to create an open, flexible and modern space for both living and working environments.



Harmonia

Bi-folding door system

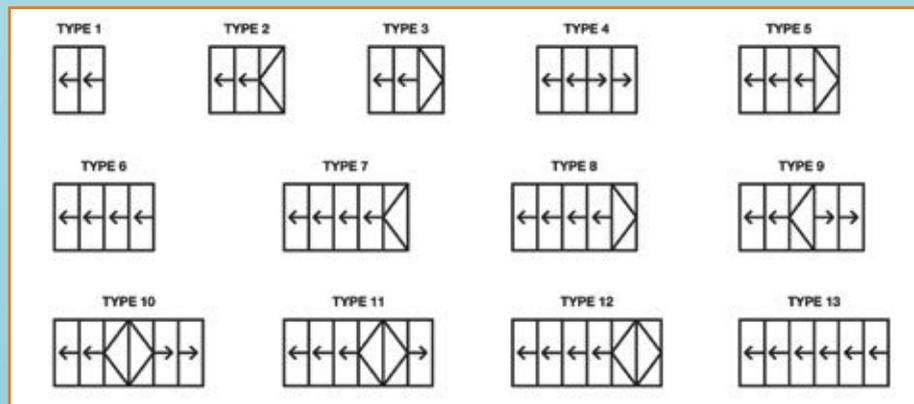
- Harmonia is a technologically advanced bi-folding door system which creates beautiful panoramic views.
- Available in a range of styles and designs, panels can be stacked inside or outside of the room, to the left, right or split to stack on both sides.
- Door sets can be manufactured to replace entire walls to maximise your opening space.
- Harmonia incorporates polyamide thermal breaks strengthened with fibreglass which ensure high thermal insulation.
- Unique patented handle allows maximum door opening.
- Frame width is the same as in the Triton system (72 mm).
- Glazing size range is 4 – 48 mm.
- Available in any single RAL colour or dual colour option.



Minimum Height 2900 mm*
Maximum Width 7000 mm*

Individual panel width
not to exceed 1000 mm.

* The sizes detailed above
are for guidance only.





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