 **okna
aluminiumowe.pl**



**ALUMINUM HOME SOLUTIONS
UNLIMITED FUTURE**



UNLIMITED FUTURE

We have created an innovative project for individual customers concerning aluminium solutions for homes. Our inspiration were the trends in modern architecture that promote creating large-dimensioned windows and doors of complicated shapes, which frequently limits application of PCV and wood based solutions.

The social awareness of solutions based on green energy is also very significant in our times, especially with regard to residential buildings. Due to modern technologies aluminium is perfect for constructing energy efficient buildings that may reflect even the most futuristic and daring visions of designers and users.

Oknaaluminium.pl is dedicated to individual customer service, nationwide, specialist sales network, which brings together leading aluminum manufacturers, service technicians and fitters.

In each of the stores of the oknaaluminium.pl network the customers will get a complete offer for their houses: windows, entry doors and terrace doors, conservatories, window sills, window protection??, facades and other construction elements that constitute the dream house.

A team of professional, trained Advisors will prepare a custom offer for window joinery, taking into account individual needs as well as the architectural style of the designed building. The expert care doesn't end with the purchase of aluminium solution for homes but includes also the professional fitting and service and the longest guarantee period on the market.





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WHY ALUMINIUM?

The modern world presents an ever-growing demand for energy which simultaneously leads to significant climate changes resulting in the need to search for innovative and environmentally-friendly solutions. Aluminium may be a remedy for these challenges. It is a material that can be entirely re-processed and generates sustainable energy solutions such as lighter, less fuel-consuming vehicles, components for wind power plants, and perhaps most importantly – energy saving buildings.

For years aluminium has been associated only with commercial construction. It has been perceived as a "cold" metal, not suitable for use in housing construction in the Polish climate. Developments in technology have debunked this myth by proving that aluminium is ideal for producing modern and energy saving windows and doors in our homes, which are "self-financing".

The most important feature of aluminium joinery is its durability and energy saving quality. The complex construction of profiles and the possibility of applying various types of infills guarantee the maintenance of accurate indicators of thermal insulation and the reduction of heat loss. This proves particularly important in passive and zero energy houses.



One begins to note a rapidly growing number of houses in the cityscape whose designs feature large glazings, ensuring the entry of light and opening up the rooms to their external surroundings. This is where aluminium comes in! It combines two seemingly contradictory properties - flexibility of alloys (during the production process), and rigidity of construction elements. This first feature allows for the production of narrow profiles of non-standard shapes which make the windows look slimmer and increase the surface of the pane. The rigidity of aluminium, on the other hand, permits for the design of entirely glazed constructions without the need to use any additional reinforcements.

Aluminium offers significantly greater construction possibilities, among others, due to the relatively low weight of aluminium joinery in comparison to wood and PVC. This in turn increases the ease of using window leafs and doors made of this material.

The superiority of aluminium over PVC and wood presents itself also in high resistance to harsh weather conditions. In comparison to those made of PVC, aluminium window and door profiles are more resistant to fading colours caused by sunlight. They also do not require preservation work as often as wood which has to be painted every few years. Thanks to this, their energy saving properties remain at the highest level for many years.

Aluminium windows and doors increase the safety of both you and your family in many ways. They are resistant to fire and can prevent it from spreading. Furthermore, due to its solid construction and the application of anti-theft panes and fittings, they prevent intruders from breaking into the house.

The newest technology allows for aluminium window frames to be designed to suit any architectural style. The use of the correct paints and varnishes, with a diversified structure, makes colour options practically limitless. A current trend in family homes is wood-imitating covers, which resemble natural patterns and make the window appear to be made of wood, while simultaneously maintaining durability and a low weight.

	Aluminum	Wood	ALU / Wood	PCV
Limitless choice of colours and structures	x			
Resistance to harsh weather conditions	x			
High acoustic insulation	x	x	x	
Fire resistance	x	x	x	
Tightness	x	x	x	x
Long lasting quality	x	x	x	
Stable dimensions for many years	x	x	x	
No need for frequent maintenance	x			x
Possibility of creating large-scale glazings	x			
High heat insulation	x	x	x	x
Resistance to damage	x	x	x	x
Possibility of creating non-standard shapes	x	x		
Environmentally-friendly solutions	x	x	x	
Possible application of photovoltaic solutions	x			
Possibility of creating structures with an anti-theft protection class up to RC4	x			
Possibility of installing solutions falling within the concept of smart home	x	x	x	x

ALUMINIUM WINDOWS "TO THE WORLD"

One of the most important choices that has to be made when building a house is selecting suitable window joinery. When making this decision one has to take the following aspects into consideration: aesthetics, safety, functionality and comfort of use, tightness and most importantly - energy savings.

ALUMINIUM ELEGANCE

Windows produced in accordance with Yawal systems enable the construction of buildings which are extremely effective in terms of architecture. They are perfect for both contemporary houses and traditional housing. The individual character of a house can be accentuated by both the size and shape and of the windows. Thanks to thin profiles, windows made of aluminium are unusually slender and rooms are therefore very bright. In addition to this, large glazings open up our houses to the beauty of external surroundings. Limitless freedom regarding the choice of colours and structure of windows is also very important. Oknaalumiowe.pl gives you opportunity to choose from RAL colours or structural colours, produced by one of the best powder paint manufacturers - IGP Pulvertchnik Sp. z o.o. company. There is also possibility of choosing ligniform colours and anode.



ENERGY SAVING

Saving energy with windows produced by Yawal systems is very easy. The most important criterion, which every buyer should consider, is the heat transfer coefficient of windows or doors (U_f), whose value should be as low as possible. In the coming year, the construction sector will face the gradual tightening of this criterion (from 2017 - $U_f \leq 1,1 \text{ W/m}^2\text{K}$, and from 2021 $U_f \leq 0,9 \text{ W/m}^2\text{K}$). This is why specialists from Yawal use innovative technologies and materials to design systems which even today meet the aforesaid requirements and allow for the production of windows with the highest level of thermal insulation (U_f from $0,4 \text{ W/m}^2\text{K}$).



TIGHTNESS

Water tightness, acoustic insulation, and wind load resistance are further criteria which have to be taken into consideration when selecting windows. Designers of Yawal window systems use additional protective seals in their constructions, in order to provide homeowners with the best values of the aforesaid criteria. Moreover, before Yawal profiles are used for the production of windows, they are thoroughly tested for their levels of acoustic insulation, wind load resistance, and water tightness.



COMFORT AND FUNCTIONALITY

When creating window systems our experts cooperate with the best specialists from the sectors of fittings, automatics, and fastening elements. Windows produced with Yawal systems, aside from the traditional function of opening, tilting and micro-unsealing, possess useful options like lifting, opening outwards or sliding. We pay attention to the comfort of users and strive for full automation, allowing for the remote opening and closing of windows with the help of electronic devices or a timer, and controlling anti-sun blinds which protect against excessive UV rays.

SAFETY

Very often buyers associate large, glazed windows with a higher risk of intruders breaking into a house. Yawal has taken care of its clients in this respect also. Safety is not accidental but results from the well-considered application of the newest technology. Yawal S.A is the only company in Poland to hold a certificate from the Institute of Precision Mechanics, proving that the company's systems can be used for the production of anti-theft windows in one of the highest anti-theft classes - RC4.



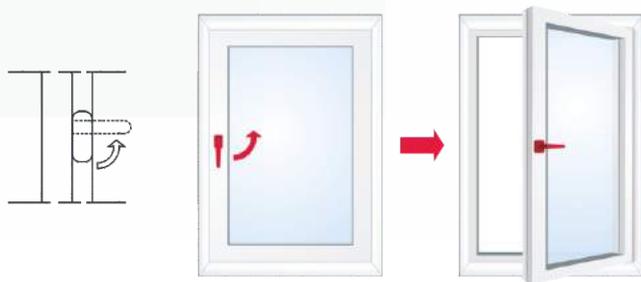
WINDOW TYPES

Windows differ not only in terms of applied systems, fittings, equipment and dimensions. The direction and the manner of their opening is also very important.

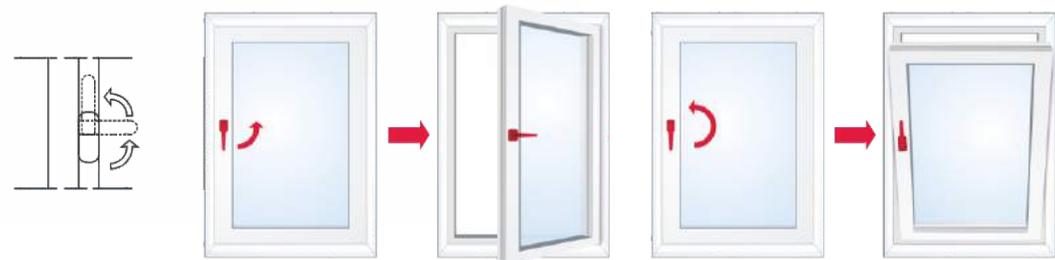
The choice of the manner of windows opening is influenced by different factors that have to be taken into account as early as at the design stage. A primary determinant of this issue is window location in the house. Windows on the ground floor are opened differently than windows located, e.g. in the attic. Investors' requirements for functionality and usage of windows also influence the choice of the manner of windows opening.

We offer windows and balcony doors in the following configurations:

Turn window (closing - turning)



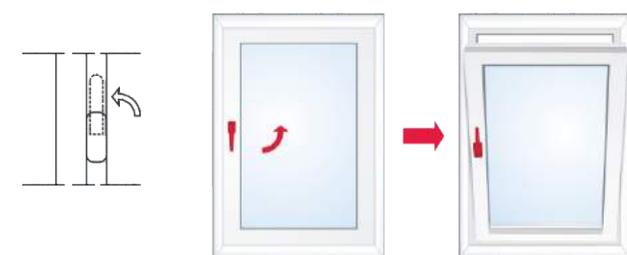
Turn and tilt window (closing - turning - tilting)



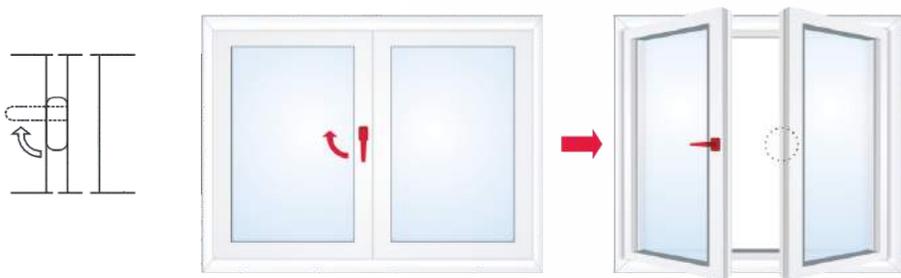
Tilt and turn window (closing - tilting - turning)



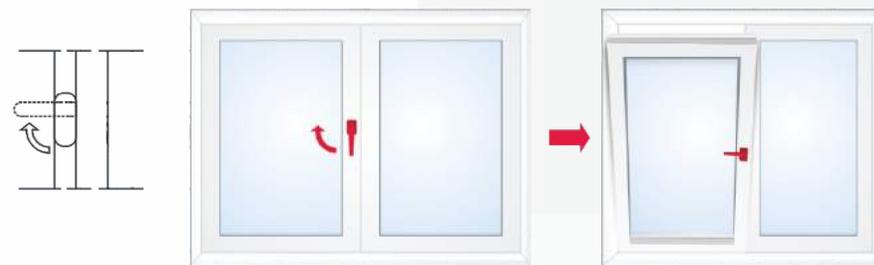
Tilt window with side handle (closing - tilting)



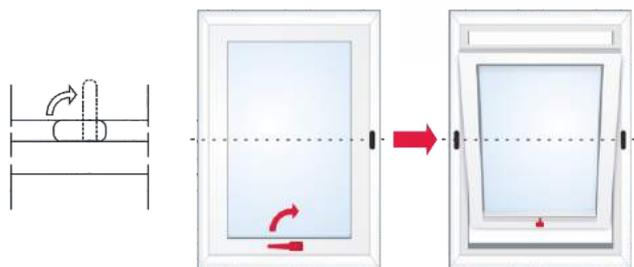
Turn double-sash window with movable mullion (closing - turning)



Tilt and turn double-sash window with movable mullion (closing - tilting - turning)



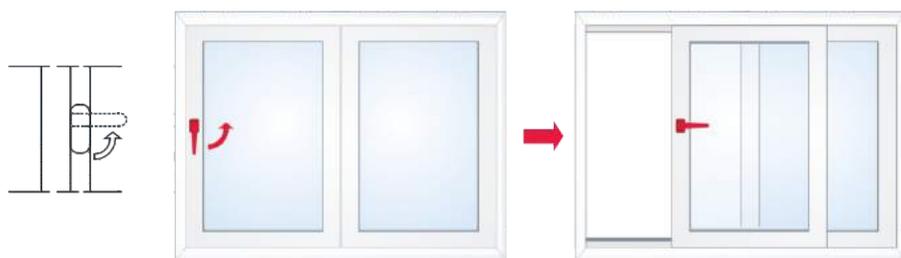
Pivot window with horizontal rotation axis (closing - opening)



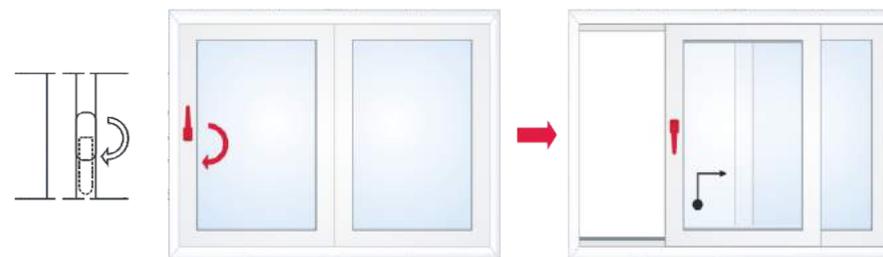
Single-leaf doors (closing - turning - tilting)



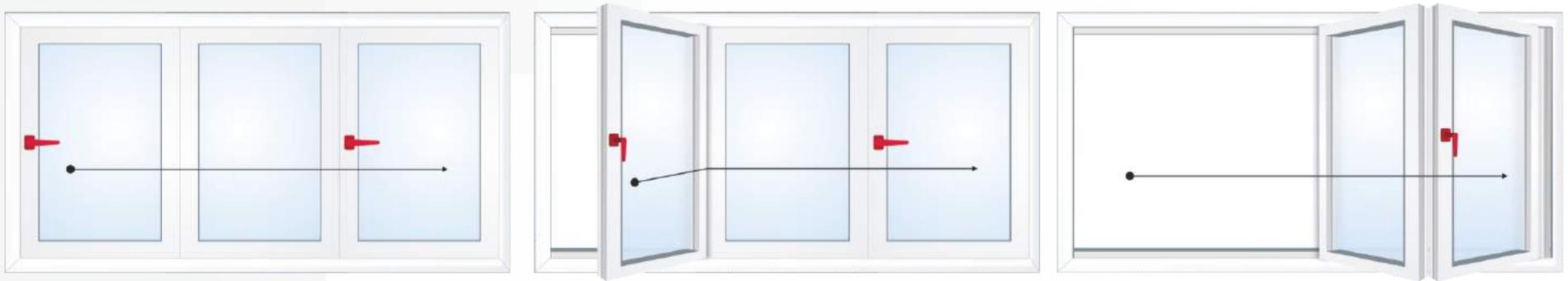
Sliding doors (closing - sliding)



Overhead sliding doors (closing - sliding)



Accordion doors (closing - turning - sliding - folding)



GLAZING UNITS

The quality of a product is determined by the choice of both an aluminum system suitable for the intended use and a glazed infill.

Glass by usage can be divided into:

Single glass – applies to internal structures of rooms or structures in unheated buildings.

Glazed units – applies to external structures of rooms due to the high thermal insulation. Moreover, to improve the acoustic insulation such infills may be used for internal structures.

Types of glass for production of window panes:

Float – clear, basic glass used in construction.

Opti White – clear glass, a specially developed float glass type where the greenish shade characteristic of ordinary glass has been completely eliminated.

Antisol – reduces sunlight thanks to absorption of solar and heat radiation. The basic colors of this glass: brown, green, blue, graphite and black.

Reflex (stopsol) – through colored glass. Reflex is additionally coated with a layer of noble metal oxide which acts as a mirror, reflecting part of sunlight.

Flashed glass – makes that only a limited amount of heat energy from the outside gets inside so that there is no intense heat inside the room.

By user protection safety glass can be used:

- **Laminated (glued)** - designation VSG - consists of two or more sheets interlaid with one or more layers of clear or colored film.

- **Toughened** - designation ESG - mechanical strength is 5-7 times higher than in case of ordinary glass. Toughened glass after breaking crumbles into small fragments.

- **Anti-theft** – used in structures on the ground floor, and where the users have interest in safety. This type of glass is produced by the use of layers of special anti-theft film between several layers of glass.

- **Fire-resistant** – used to provide fire protection in aluminum systems. Fire-resistant glass has a multi-layer construction in which float glass panes are connected with each other by intermediate layers made of gel mass having properties of increasing the volume under the influence of high temperature.

Photovoltaic cells can be also installed in sealed glazing units (e.g. on railings, facades, shutters).

WARRANTY

The products of the Oknaalumiowe.pl network meet the highest technical standards. The reliability of the high quality aluminum joinery is ensured by leading manufacturers of assembly parts used for production, who have been operating on the market for many years. Their experience and reliability translate into user comfort and product prestige. Warranty granted on components and end products of the oknaalumiowe.pl brand covers a period of 3 years. A condition to extend the warranty period even up to 6 years are systematic periodic checks carried out each year by Authorized Assemblers of the Oknaalumiowe.pl.

Labelling of products

Each product of the Oknaalumiowe.pl is adequately labeled. A seal placed on windows and doors allows you to identify the Authorized Manufacturer and determine the date of manufacture.

Name plate location:

- If a structure has opened elements, a name plate is glued on the back of the leaf at a distance of 100 mm from the bottom edge of the upper hinge at the active leaf.
- If a structure does not have opened elements, a name plate is glued under the clip from the inner edge at a distance of 100 mm from the groove of the glazing profile.



PANEL DOORS



WINDOWS



WINDOWS WITHOUT OPENED ELEMENTS
(The photo shows how a plate looks like after the clip is removed)



BALCONY DOORS



TERRACE DOORS



I	II	III	IV	2017
V	VI	VII	VIII	2018
IX	X	XI	XII	2019

COMPANY NAME
ADDRESS
←← DATE OF PRODUCTION
(MM-RRRR)

NAME
PLATE
TEMPLATE

INFORMATION ON THE DETAILED WARRANTY COVERAGE
AVAILABLE IN AUTHORIZED POINTS OF SALE



SOLUTIONS DEDICATED
TO **PASSIVE** HOUSING



UNPRECEDENTED THERMAL INSULATION OF WINDOWS!

$U_w =$ from $0,4 \text{ W/m}^2\text{K}$ - results comparable to insulated walls*

*Calculation is valid for a wall consisting of 2 layers of plaster, hollow brick 240 mm thick (tongue & groove), styrofoam EPS 80 of 40mm. thickness.

ALUMINIUM WINDOWS BASED ON TM 102HI

YAWAL TM 102HI System is designed for energy saving and passive houses. It will work in both public facilities and family housing. It is a complex system of aluminium profiles used for the production of modern types of windows, doors, and showcases requiring high thermal insulation.

The innovative construction of a window leaf with an applied insulator, set at an angle relative to the casing, ensures the beneficial strength distribution in a profile. This in turn creates highly durable profiles which can be used for the production of heavy, large format constructions. Within the system, we offer a broad range of glazing and installation options, from all types of panes, single, double and triple-chamber, available on the market.



	Heat transfer coefficient	from 0,4 W/m ² K
	Maximum leaf weight	300 kg
	Permissible leaf width	1600 mm
	Permissible leaf height	3000 mm
	Anti-theft protection	RC2

Colours: Possibility of making a profile with any colour from RAL range.
Additional options: anodising, wood imitation, painting with structural paint.
Details on page 66-72





Photo: Quarta Apartments, Warszawa / Design: 77 Studio Architektury Paweł Naduk
Aluminium manufacturer: ROBDAR S.C. Dariusz i Robert Paduch

ALUMINIUM WINDOWS BASED ON TM 77HI

The TM 77HI system is a safe and innovative solution that enables the attainment of excellent coefficients of thermal insulation, acoustic insulation, protection against wind and water, as well as security. Dedicated thermal insulators act as thermal insulation, in combination with infills with high thermal insulation properties.

- POSSIBLE PRODUCTION OF TILT AND SLIDING BALCONY DOORS
- POSSIBLE PRODUCTION OF DOORS WITH LOW TRESHOLD
- POSSIBLE PRODUCTION OF ROUNDED SASH PROFILE AND GLAZING BEAD



	Heat transfer coefficient	Windows - $0,8\div 1,4$ W/m ² K Doors - $0,9\div 1,5$ W/m ² K
	Maximum leaf weight	Windows - 200 kg Doors - 200 kg
	Permissible leaf width	Windows - 1600 mm Doors - 1300 mm
	Permissible leaf height	Windows - 2700 mm Doors - 3000 mm
	Anti-theft protection	Windows - RC2, RC3, RC4 Doors - RC2, RC3
	Colours: Possibility of making a profile with any colour from RAL range. Additional options: anodising, wood imitation, painting with structural paint. Details on page 66-72	





Photo: EVA PARK LIFE & SPA, Warszawa / Design: Open Architekci
Aluminium manufacturer: ROBDAR s.c. Dariusz i Robert Paduch

ALUMINIUM WINDOWS BASED ON TM 74HI

This system is dedicated to constructing windows, doors and display windows with high thermal insulation properties, to be used in residential buildings, public and industrial buildings.

The thermal insulators (made of fiberglass reinforced polyamide) used in the system and the space between them were additionally filled with polyurethane foam. The system allows for the construction of large dimensions due to the use of reinforced profiles



POSSIBLE PRODUCTION OF TILT AND SLIDING BALCONY DOORS



POSSIBLE PRODUCTION OF ROUNDED SASH PROFILE AND GLAZING BEAD



Heat transfer coefficient

Windows - from 1,0 W/m²K
Doors - from 1,2 W/m²K



Maximum leaf weight

Windows - 200 kg
Doors - 200 kg



Permissible leaf width

Windows - 1600 mm
Doors - 1250 mm



Permissible leaf height

Windows - 2700 mm
Doors - 3000 mm



Anti-theft protection

Windows - RC2, RC3
Doors - RC2, RC3



Colours: Possibility of making a profile with any colour from RAL range.
Additional options: anodising, wood imitation, painting with structural paint.
Details on page 66-72





WINDOWS WITH HIDDEN HINGES ROTO DESIGNO

If our intention is stylish appearance of the living room, all decor details are to be taken care of. When it comes to windows, the best idea is to order such windows that do not show their hinges. Thanks to this, even after next refurbishments they will match the interior concept.

What is the difference between hidden and surface hinges?

Surface hinges is a traditional solution based on visible from the outside pintle hinges adjustable in three planes. In turn, a hidden hinge mechanism is concealed under the sash rebate and thus remains invisible from the outside. Even if the windows do not have an exclusive design, with no visible hinges they look light and elegant. The use of such solution affects not only the aesthetics, but also improves the functionality and tightness of windows.

The windows with hidden hinges can be ordered in turn and turn-tilt versions, in a variety of shapes.



The weight of a leaf with hidden hinges can be up to 180 kg.

This is important, because due to high gross weight it is possible to produce windows with heavy soundproof or thermo insulating glass units which successfully protect against frost or a loud neighbor.

The presented windows with hidden hinges after the window is closed hide in the space between the leaf frame and casing. Window surface is ideally smooth and no unnecessary elements which would case dusting and soiling protrude. It is far easier to keep such a window clean.



WINDOWS WITH SURFACE HINGES - ROTO AL



The system of fittings is ideal for structures of windows and balcony doors made of aluminum, allowing for utilization of solutions with different shapes and sizes in a version coated with 5 varnish colors. Window/doors leaves based thereon can reach up to 2700 mm in height and 160 kg. The solution allows you to use all the traditional manners of opening: turn-tilt, turn, tilt or double sash with movable mullion and TiltFirst. It meets the requirements of the classes RC1-RC3.

The presented ROTO AL surface hinges is a solution based on visible from the outside hinges adjustable vertically and horizontally, and with pressure adjustment which allows for precise positioning of the leaf relative to the casing.

WINDOWS WITH ECONOMIC HINGES - ROTO NT AL

The economic system of fittings allows for equipping windows with additional accessories: a handle brake, multistage micro ventilation or placing the handle in the bottom leaf arm. The windows can be made in versions with visible or hidden hinges, in all the shapes and manners of opening and also in an anti-theft version. Covers adjusted in terms of color to the hinges may be ordered.



DOUBLE SASH WINDOWS WITH MOVABLE MULLION - ROTO ST

Double-sash windows with movable mullion are not divided in any place when opened which gives the impression of more space. The first window is opened traditionally with a handle, and the second using a lever lifted comfortably to a horizontal position, invisible when you close the window. You can also order windows in an anti-theft version in the classes RC2 and RC3.





WINDOW HANDLES

Window handles along with the profile are the most important elements of window aesthetics.

Form and color of door handles are a treasure trove of creative opportunities that will suit the taste of supporters of both classical and modern style.



WE PRESENT TO YOU SAMPLE DESIGNS OF ROTO HANDLES IN A STANDARD VERSION OR EQUIPPED WITH A KEY:



Roto Line - R01.5
Standard
Designed for fittings:
AL, Designio



Roto Line - R01.5
Zamykana na kluczyk
Designed for fittings:
AL, Designio



Roto Line - R01.5
Standard
Designed for fittings:
NT AL, NT AL Designio



Roto Line - R01.5
Lockable handle
Designed for fittings:
NT AL, NT AL Designio



Roto Line - R01.5
Escutcheonless handle
Designed for fittings:
NT AL, NT AL Designio



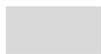
Round rosette to
Escutcheonless handle
Designed for fittings:
NT AL, NT AL Designio



Example of
Escutcheonless
handle

Standard colours of handles - Handles in standard colours are always available in stock as our regular product mix.

R01.5 - SILVER



R05.4 - DARK BROWN



R06.2 - MATT BLACK



R07.2 - WHITE



R03.4 - NIRO DESIGN



Non-standard colors are available only on request.



ELECTRIC DRIVE

Electronic Roto E-Tec Drive automatically controls opening and closing of the windows.

The window sash can be opened up to 12 cm, closed and relocked noiselessly. All those functions are controlled either by a wall switch or by means of a remote control system

The remote control allows for programming precisely the time of window opening and closing. It is also possible to combine the system with air humidity sensors located in the room that will tilt or close the window, based on their readings.

The timer allows for setting certain hours during the day, when the window is opened, and then closed and locked. Similar function is possible for weather sensors - certain values of humidity, temperature and carbon dioxide can be set. Apart from timer and thermometer, also wind and rain sensors can be integrated in the control system to increase the safety of inhabitants.



Possibility of setting any window tilt angle

The drive, integrated in the housing of fittings indivisible from the inside and from the outside, so it does not interfere with the aesthetics of the window. This solution is dedicated for very humid rooms, such as bathrooms, but it also works for windows that are inaccessible or hardly accessible, for example in the staircases.





ANTI-THEFT PROTECTIONS

The windows and balcony doors on the ground floor are most exposed to burglary. At the same time they are expected to have an aesthetic look due to representative character of rooms located on the ground floor.

The basic anti-theft protections of an aluminum window includes:

- Secustic - special handle with a button or locked with a key,
- at least one security locking point, composed of pins and security locks.

Safe use of windows is allowed by a handle incorrect position lock owing to which the window does not unhook out from the hinge, smoothly going from open to tilted position.

However if we wish to buy anti-burglary windows, we should ask the shop assistant for RC2 or RC3 certificate for the whole window. The most efficient protection against a burglar is a combination of mechanical means (e.g. window with RC2 certificate) and electronic means, i.e. Roto MVS opening control sensors that warn against each attempt to pry the window.



Locking point
RC3



Opening indicator -
Kontrakton



Windows and patio doors available from the ground and balcony should have anti-theft protections of RC2 or RC3 class and access control sensors.



For windows on higher storeys, not accessible from the ground or balcony, it is enough to use control sensors.

Roto MVS Kontrakton is an electronic window protection connected with an alarm system or video surveillance. At the time the magnetic field is interrupted, for example when you try to open the window, when the alarm is armed, a sensor hidden under the sash rebate sends a signal about a burglary attempt to the central unit.



Anti-theft
security pintle RC2



Anti-theft
security pintle RC3



Standard pintle ensuring
pressure on the sash



Standard pintle
in a push rod strip



CHILDREN'S ROOM WINDOW



The best solution is to equip the windows in children's room with a protection mechanism Roto „TiltFirst“ that tilts the window before opening, working in exactly opposite way to traditional windows.

Additionally, the special handle that activates this mechanism is equipped with a lock. Turning the handle by 90 degrees allows to tilt the window, but not to open it.

The lock is released by turning the key, which allows to rise the handle up and open the sash. The locking mechanism activates itself automatically after closing the window and turning the handle to tilt position.

Electrically adjustable car windows can be blocked against opening by children with one button. It is worth applying similar solution for windows installed in children's rooms. Especially when they are located upstairs.

OPENING LIMITER

Another interesting solution dedicated for aluminium windows and available at our network is the opening limiter with RotoAluvisionDesigno brake.

Its basic function is to protect the window sash against accidental and sudden closure. This solution eliminates the danger of sash or handle hitting the wall. There are two types of brakes defining the angle of window sash opening:

#1 opening limiter to open the window at a particular angle, e.g. 90 degrees,

#2 opening limiter with a handle, where the opening gap may be freely adjusted and the sash is locked at the selected position. This solution allows for free airing of the rooms in the summer.

The RotoAluvisionDesigno opening limiter is recommended especially with turn windows and balcony doors.





FITTINGS FOR TILT-SLIDING BALCONY DOORS ROTO PATIO ALVERSA

Sliding patio windows and doors let the light inside the room, creating an ideal combination of living area and the outside environment. Sliding systems occupy less space, allowing for free space arrangement. Their operation is more convenient than in the case of traditional balcony doors opened inwards.



SAFE HOUSE

Balcony and patio doors are the weak points most often used by burglars. Thanks to the anti-theft elements, such as anti-theft catches and lockable handles you can adjust the grade of protection measures to individual safety needs.

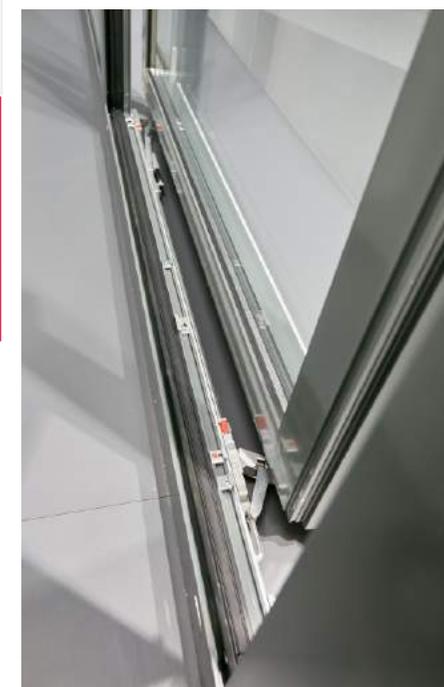
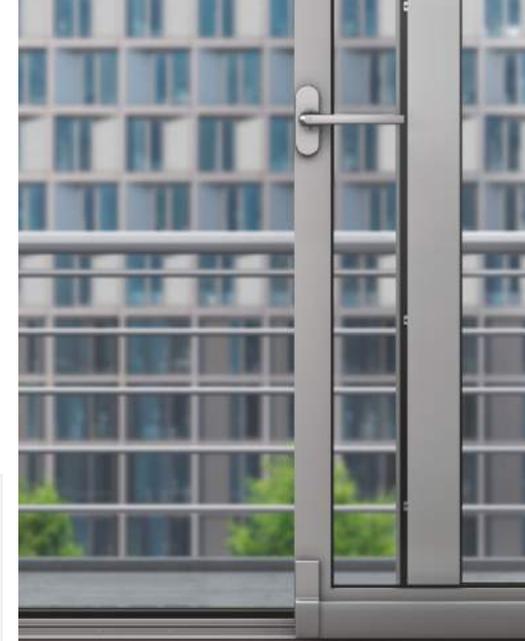
MICROVENTILATION

Balcony doors can be optionally equipped with invisible from the outside proper micro ventilation. The leaf is set away from the frame by several millimeters, but from the outside the window looks closed.

USE CONVENIENCE

An innovative mechanism for opening and closing parallel sliding systems allows quiet and silent sliding.

Special cushioning elements for optimal closure and moving of leaves. All parallel sliding variants can also be intuitively operated like traditional turn-tilt windows. The use of standard window handles e. g. Roto Line gives the sliding systems and turn-tilt windows uniform appearance in all rooms.





HANDLES FOR BALCONY DOORS



Patio doors handles along with the profile are the most important elements of window aesthetics. The form and color of door handles are a treasure trove of creative opportunities that will suit the taste of the supporters of both classical and modern style.

WE PRESENT TO YOU SAMPLE DESIGNS OF ROTO HANDLES IN A STANDARD VERSION OR EQUIPPED WITH A KEY:



Roto Line
with key - R05.4
Kolor: dark brown



Roto Line
with key - R06.2
Kolor: matt black



Roto Line
Standard - R07.2
Kolor: white



Roto Line
Standard - R05.4
Kolor: dark brown



Roto Line
Standard - R06.2
Kolor: matt black



Roto Line
Standard - R01.5
Kolor: silver



Roto Line
Standard - R05.4
Kolor: dark brown



Roto Line
Standard - R05.4
Kolor: dark brown



Balcony latch with a pull handle

Balcony latch can be used in Roto AL systems with hidden and visible hinge part in NT AL and NT AL Designo. The latch may be placed on the bottom or vertical edge of the leaf on the side of the handle. It holds the door leaf in the casing, for example after exiting to the balcony. The pull handle can be used on all doors regardless of the fitting system. It allows free tightening of the leaf to the casing which is held therein by the balcony latch.

ACCORDION DOORS

Any room can be divided into zones very easily - by means of accordion doors based on Yawal TM 74HI system.

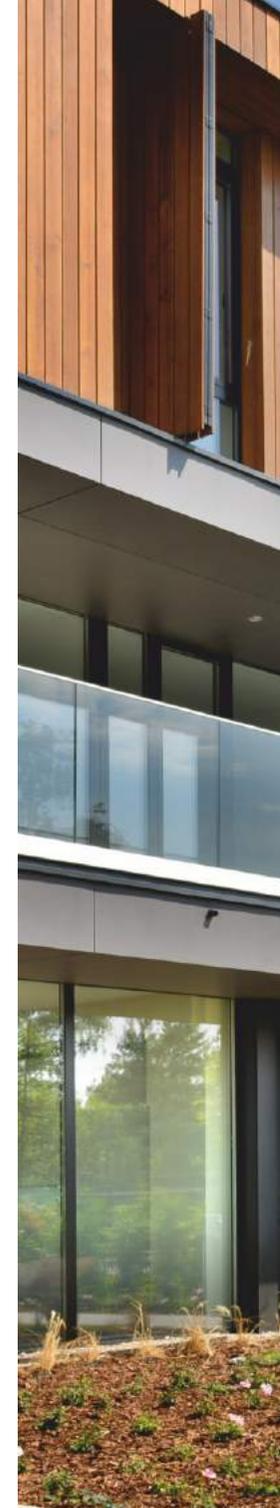
The accordion doors are available in two arrangements:

#1 The first available option is created by combining a tilt and turn leaf and two or more leaves that will create an accordion fold when slid to one side. Such construction of the accordion doors allow for opening of the turn leaf, thus providing a passage without the necessity to spread the folded part.

#2 The second available option gives the possibility of sliding all door leaves to one side to get a maximum possible passage opening. Independently of selected opening arrangement, the smallest possible construction of the accordion doors is composed of three leaves, the largest option is six leaves. Additionally, maximal dimensions of the construction are 6000x2500 mm (length x height). The folded parts of the doors move on the guides located in a threshold. To avoid creating barriers in your space we recommend using a low threshold option.

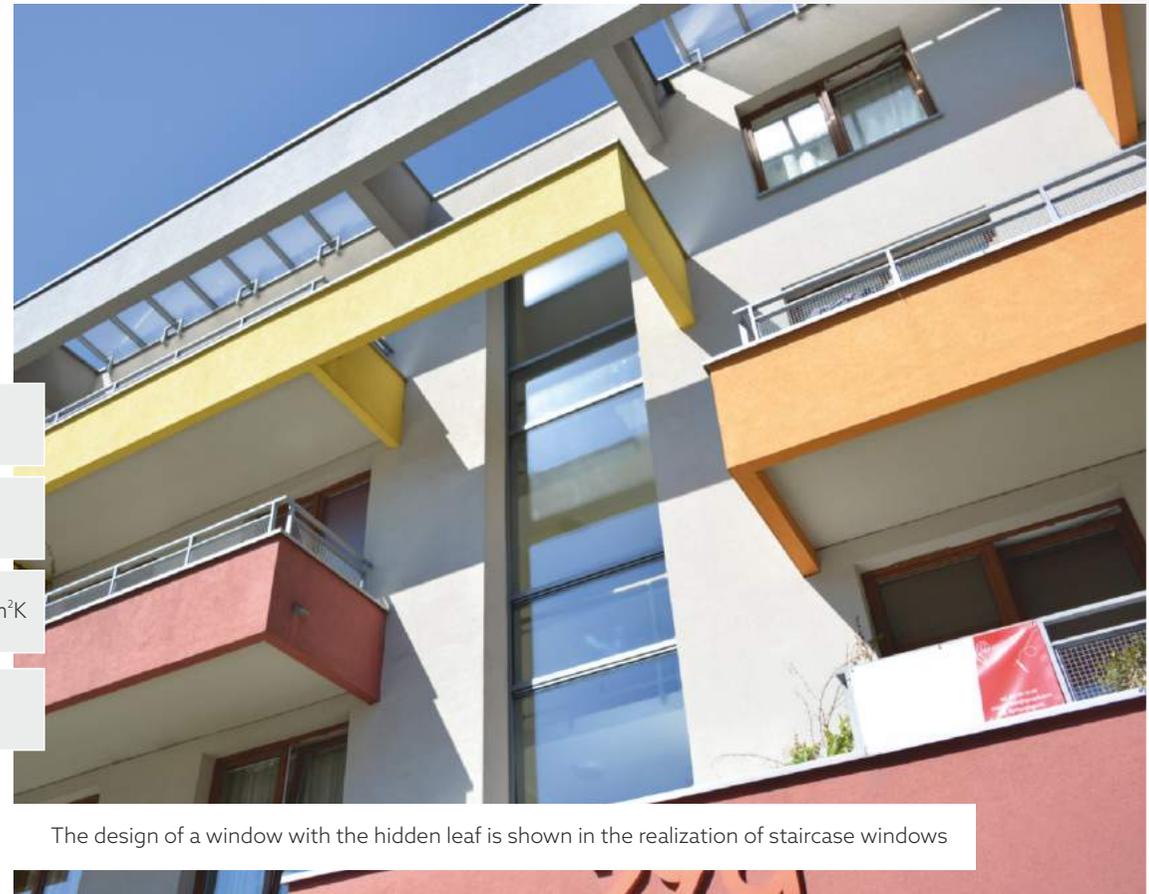


	Maximum dimensions	6000 x 2500 mm
	Number of leaves	from 3 up to 6
	Possible to be made on the basis of the system	TM 74HI
	Colours: Possibility of making a profile with any colour from RAL range. Additional options: anodising, wood imitation, painting with structural paint. Details on page 66-72	



WINDOWS WITH THE HIDDEN LEAF

Window with the hidden leaf is a modern solution in which you cannot distinguish the opened window elements from the solid ones. The presented effect is achieved by retracting the window leaf behind the casing profile and placing it on one of the glass pane planes installed both in solid and opened areas.



The design of a window with the hidden leaf is shown in the realization of staircase windows

	Permissible leaf width	1600 mm
	Permissible leaf height	2700 mm
	Heat transfer coefficient	from 1,16 up to 1,59 W/m ² K
	Possible to be made on the basis of the system	TM 77HI, TM 74HI
	Colours: Possibility of making a profile with any colour from RAL range. Additional options: anodising, wood imitation, painting with structural paint. Details on page 66-72	

YAWAL PRESTIGE ALUMINIUM PANEL DOORS

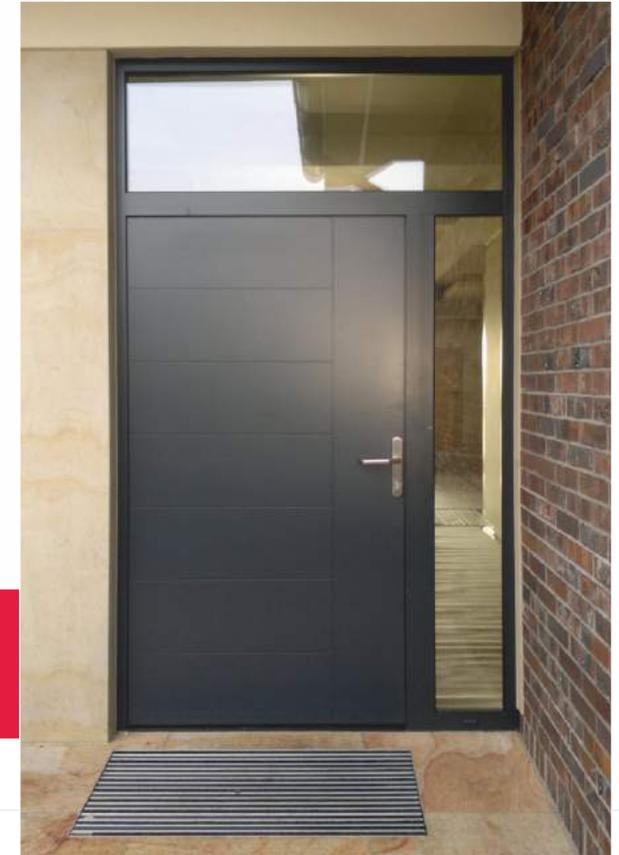
Throughout recent years the role of entrance doors has changed. Obviously, their primary task is still to protect the inside of a house from intruders and cold. Nevertheless, doors now express our homes. They are responsible for the first impression given. This is why it is so important that together with the facade and Windows, they should create an integral whole.

MODERN TECHNOLOGY

Aluminium panel doors have taken architectural projects by storm. They are renowned for high stability and resistance to deformation, even withstanding the impact of harsh weather conditions.

Prestige Aluminium doors ensure warmth, safety, and comfort for those in the house. Very high levels of thermal insulation (Uf from 1,1 W/m²K), as well as acoustic (Rw = 33 dB), and water tightness (class 7A) are achieved thanks to the triple-chamber construction of profiles, the application of the most modern thermal spacers, and a string of internal and external seals. Prestige doors have an environmentally-friendly, complex structure. Thanks to this, they keep heat inside during the winter and ensure pleasant coolness during the summer, which lowers the costs of heating or air-conditioning.

Even the very construction of doors offered by Yawal guarantees safety of those in the home. However, there is the possibility of increasing the security level by adding multi-point locks or anti-burglary bolts installed on the side of hinges. If the project includes the installation of glazed elements, these are made of tempered glass.



FULL AUTOMATION

Intelligent system solutions, which allow remote control and keyless access, are becoming more and more popular. There are numerous options for such improvements, such as: transmitters providing the possibility of opening front doors by remote control, video modules with service panels which are responsible for the monitoring of the situation outside the house, or motion detectors placed in the exit zone. A technical novelty is a biometric access system with a fingerprint scanner, thanks to which we can open the door with the single touch of a finger.

UNIQUE STYLE

Tailor-made aluminium Prestige doors will accentuate the individual style of each house. Whether you are looking for doors to modern housing or renovated buildings, we can achieve a perfect match thanks to the freedom of choice in form, colour, structure, and equipment.

The number of configurations is practically limitless so it is worth taking some time when selecting suitable combinations of casing frame, leaf frame and infill. Yawal gives its clients the possibility of making door leaves of one plane in line with the casing, in order that the profile of a leaf is hidden from view. Advanced production technology allows the implementation of decorative ornaments, through the use of artistic end mills and various glazings.

Unique character is intensified with a rich range of colours provided by one of the best manufacturers on the market - IGP Pulvertechnik Sp. z o.o. People who prefer modern styles have a choice of coatings from the RAL range, anodised surfaces, metallic tints or structural effects. On the other hand, those in favour of traditional designs can go for glass panels or a wooden imitation look.



SUBTLE DETAILS

A classic solution, which beautifully presents itself especially in traditional housing, are Wala outside hinges. Alternatively, the effect of a plain and smooth surface without visible fittings can be achieved through the use of hidden hinges. A third option is roller hinges which can be adjusted to several planes and match the lines of a door's profile. The individual character of an entrance can be highlighted by choosing Wala handles and hand rails matching other elements of the door. Shapes of handles clearly evolve into the simplest forms. Our partner - Wala - offers hand rails of the following shapes: square, rectangular, oval, and round. They are made of stainless steel, material or cast. Regardless of their shape and the material they are made of, they are durable, adorned in an extraordinary manner, and present supreme quality.

Almost limitless options for adjusting the look of Prestige doors are completed by a broad assortment of hinges, hand rails, locks and handles.

The following part of this catalogue contains exemplary models of door panels ►►



PRESTIGE





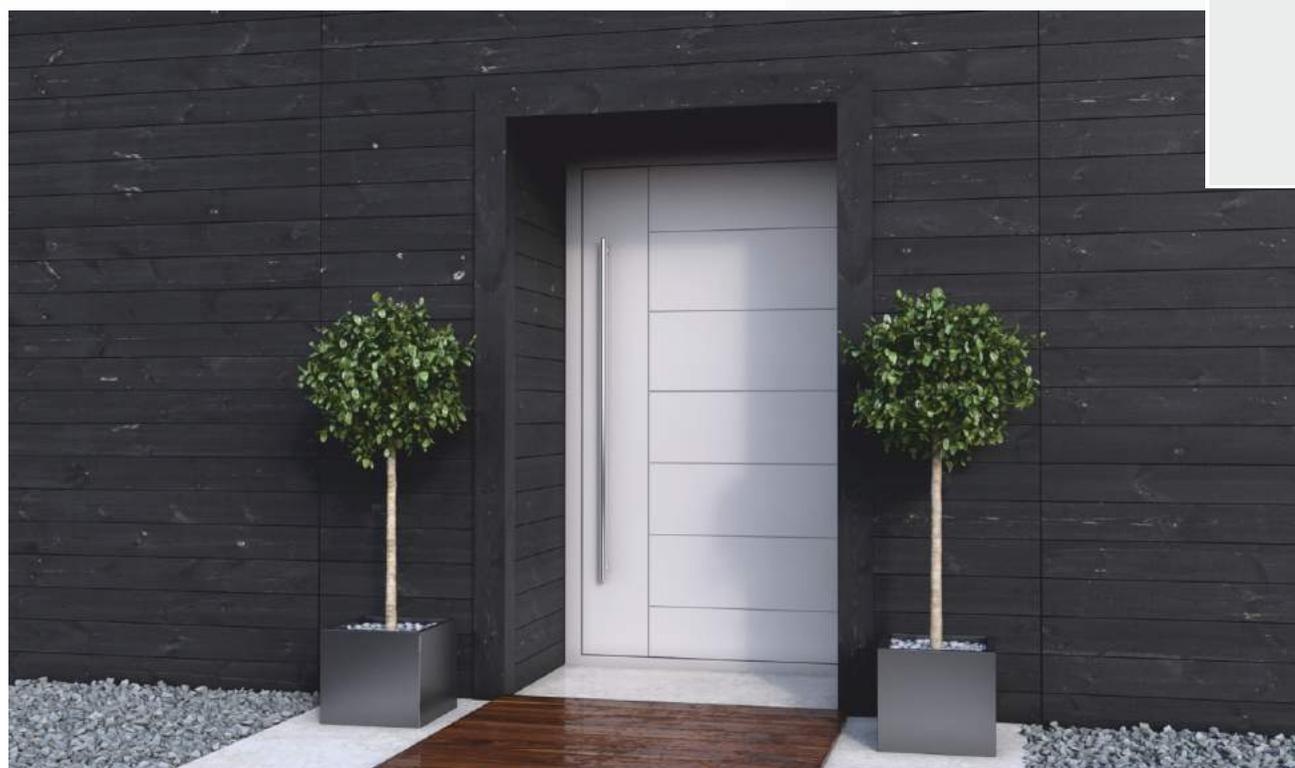
PANEL DOOR SYSTEM - TM 77HI Prestige

TM 77HI Prestige is the highest quality system of entrance doors for single or multi family homes. This solution allows manufacturing leafs within one plane in relation to the casing (invisible leaf profile) or one-sided flush. Thanks to use of a 3-chamber thermal insulation system and innovative thermal spacers, the product is characterised by having excellent properties in terms of handling heat and the elimination of thermal stress caused by differences in temperatures.

This system allows you to lower your energy consumption, resulting in the lower cost of running a household. The panel door system is compatible with the window TM 77HI system which makes it possible to construct various configurations.

	Heat transfer coefficient	from 0,7 W/m ² K
	Maximum leaf weight	120 kg
	Permissible leaf width	1300 mm
	Permissible leaf height	2600 mm
	Anti-theft protection	RC2

Colours: Possibility of manufacturing a door with any colour from RAL range, also in structural version.
Additional options: Wood imitation.





HIGIEJA

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

Stainless steel frame around the pane on both sides.

Double-chamber glass pane, matt, P4 safety class.

Possibility of painting in all colours from RAL range, structural colours, and wood-like colours.



NIKE

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

There are end mills on the outside and a smooth panel on the inside.

Possibility of painting in all colours from RAL range, and structural colours.

No possibility of painting in wood-like colours.



KLIO

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

There are stainless steel ornaments affixed to end mills on the outside,

and a smooth panel on the inside.

Possibility of painting in all colours from RAL range, structural colours, and wood-like colours.



EUROPA

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

Stainless steel frame around the pane on both sides.

Double-chamber glass pane, matt, P4 safety class.

Possibility of painting in all colours from RAL range, and structural colours.

No possibility of painting in wood-like colours.



DAFNE

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

There is a smooth plate on the outside and on the inside.

Double-chamber glass pane, matt, P4 safety class.

Possibility of painting in all colours from RAL range, structural colours, and wood-like colours.



TALIA

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

There are stainless steel ornaments on the outside, and a smooth panel on the inside.

Double-chamber glass pane, matt, P4 safety class.

Possibility of painting in all colours from RAL range, structural colours and wood-like colours.



PERSEFONA

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

Stainless steel frame around the pane on both sides.

Double-chamber glass pane, matt, P4 safety class.

Possibility of painting in all colours from RAL range, structural colours, and wood-like colours.



KALIOPE

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

There are stainless steel ornaments and end mills affixed on the outside, and a smooth panel on the inside.

Double-chamber glass pane, matt, P4 safety class.

Possibility of painting in all colours from RAL range, and structural colours. No possibility of painting in wood-like colours.



EOS

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

There is a smooth plate on the outside and on the inside.

Double-chamber glass pane, matt, P4 safety class.

Possibility of painting in all colours from RAL range, structural colours, and wood-like colours.



TEMIDA

max. panel dimension: 1250x2500 mm.
Two-sided or single-sided panel.
There is a smooth panel on both sides.
Possibility of painting in all colours from RAL range,
structural colours, and wood-like colours.



HESTIA

max. dimension: 1250x2500 mm.
Two-sided or single-sided panel.
There are end mills on the outside,
and a smooth panel on the inside.
Double-chamber glass pane, matt, P4 safety class.
Possibility of painting in all colours from RAL range, and structural colours.
No possibility of painting in wood-like colours.



HARMONIA

max. panel dimension: 1250x2500 mm.
Two-sided or single-sided panel.
There is a smooth plate on the outside and on the inside.
Double-chamber glass pane, matt, P4 safety class.
Possibility of painting in all colours from RAL range,
structural colours, and wood-like colours.



DEMETER

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

There are end mills on the outside and smooth panel on the inside.

Double-chamber glass pane, matt, P4 safety class.

Possibility of painting in all colours from RAL range, and structural colours.

No possibility of painting in wood-like colours.



MUZA

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

There are end mills on the outside and smooth panel on the inside.

Possibility of painting in all colours from RAL range, and structural colours.

No possibility of painting in wood-like colours.



KORA

max. panel dimension: 1250x2500 mm.

Two-sided or single-sided panel.

Stainless steel frame around the pane on both sides.

There are end mills on the outside

and smooth panel on the inside.

Double-chamber glass pane, matt, P4 safety class.

Possibility of painting in all colours from RAL range, and structural colours. No possibility of painting in wood-like colours.



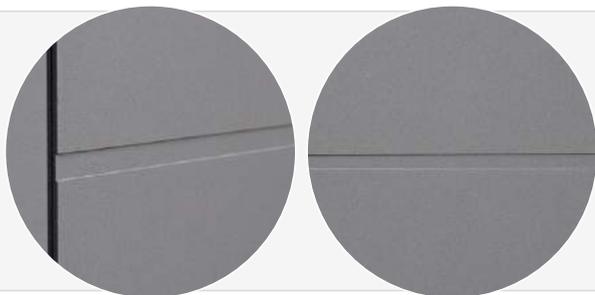
GLAZINGS

As a standard, exit doors, sidelights and upper transoms are equipped with glass panes 68 mm thick (transparent, ornamented or matt)

HINGES

Windows and doors created from Yawal's systems are constructions equipped with hinges from top manufacturers of fittings. Well chosen fittings guarantee safety, the avoidance of breakdowns, and an attractive visual effect

Depending on the preferred style, the clients may choose from hidden hinges which guarantee a smooth plain surface effect, roller hinges – adjustable in several planes , and classic outside hinges.



MILLING

Possibility of making panels in accordance with client's individual requirements.
Scope of milling width: from 10 mm to 60 mm.



Hidden hinge

Wala outside hinge - details on page 45.

Wala sash roller hinge - details on page 45.

PANEL DOORS LOCKS



Rigid chain

The door lock prevents it from complete opening. The main task of a rigid chain is to secure from unwanted intrusion into a home.

Electromotive locks

A group of locks successful everywhere where it is necessary to apply a mechanical and electronic solution. They combine two important user features: operating comfort and a high level of anti-theft protections. The solution is utilized in doors with access control. The network offers locks equipped with a catch or roll. You can control locks work both in a mechanical way, and remotely.

Day and night switch

A functional solution that eliminates the need to carry the key with you. An electric striker installed in the lock allows you to set the day mode thanks to which you may enter the house simply by pulling the handle. Switching the switch into the night mode makes entering inside possible only after using the key.



Day and night switch



Biometric locks to be built in doors



Locks with a code keypad to be built on doors

Biometric locks to be built in doors

A method of operation is simple, the lock memory stores fingerprint patterns of household members who after scanning their fingers on the reader are given the access to the house. Depending on the model, locks may store from several dozen up to several hundred fingerprint patterns. Some lock models are equipped with a "silent alarm" function which may be useful in the case of an intruder who wants to make us unlock the door. This involves the possibility to encode a fingerprint which not only opens the door, but mainly sends a notification about the intrusion to an intervention group.

Locks with a code keypad to be built on doors

This type of solution allows for unlocking the door with a code. A numeric keypad is installed directly on the door at the height (from 1.2 m) allowing children to operate it. The code keypad is illuminated which helps at night. The solution is weather-proof, including resistance to high temperature or humidity. The keypad is protected with a built-in blocking system which blocks its operation in the case of manipulation attempts.

PANEL DOORS LOCKS



When choosing the entrance doors, in addition to their appearance, we pay attention that they ensure maximum safety and effectively protect against burglary. It is important to know how the doors should be equipped to meet these important requirements.

The level of front door protection depends largely on right locks. Multipoint locks Roto Safe C600 provide very good protection, as they lock doors in several points at the same time. Such a lock consists of a main lock, extra transoms – hook bolts – and elements on the frame, so-called catches, in which they anchor. Hook bolts is the solution for especially demanding users, because it includes two items at the same time. The more such points, the better the pressure. The leaf better adheres to the door frame, improving tightness and door safety.

Hook bolts – combined locking for demanding customers. Doors will not buckle if they are permanently locked in many points at the whole height.

TRANSOM WITH SIXTEEN LOCKING POINTS

The QUAD BOLD additional transom in the form of four bolts safely and securely locks the front doors. Doors with a maximum height of 3 meters equipped with extremely solid strip locks with 16 locking points are at the whole height evenly pressed against the door frame owing to which they do not buckle throughout their life span.

TRANSOM - ADDITIONAL HOOK BOLT

A solid lock locked in 5 points improves adhering tightness of even slightly buckled doors with the height of up to 3 meters. The main lock transom prevents recessing already after first key rotation. The advantage of the lock is also a quiet latch.



C600 Lock - hook bolts and plates

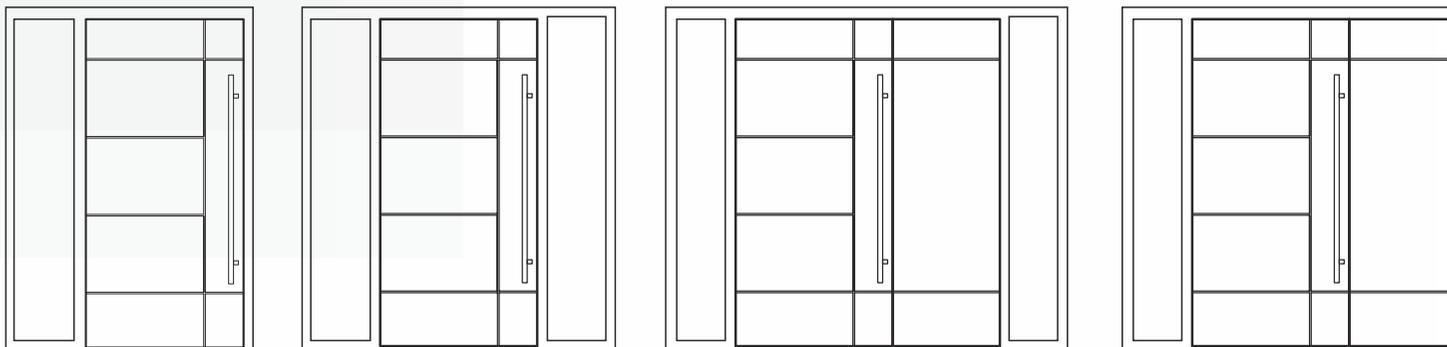


C600 Lock - hook bolts and a strip

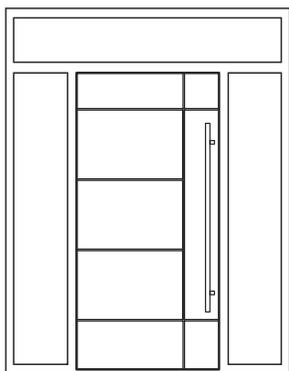
TRANSOM / SIDELIGHTS

All door patterns (single, double, and extended versions) can be equipped with a single sidelight - right or left, and a upper transom. The drawings below present examples of transoms and sidelights made of taped panels.

EXAMPLES OF SIDELIGHTS IN SINGLE AND DOUBLE LEAF DOORS



EXAMPLE OF TRANSOM AND SIDELIGHTS IN SINGLE LEAF DOORS



EXAMPLES OF TRANSOMS IN SINGLE AND DOUBLE LEAF DOORS



SIDELIGHTS - MAXIMUM DIMENSIONS

External frame dimensions Width		External frame dimensions Height	
for glass	6000 mm	for glass	2600 mm
for panel	1250 mm	for panel	2600 mm

UPPER TRANSOMS - MAXIMUM DIMENSIONS

External frame dimensions Width		External frame dimensions Height	
for glass	2600 mm	for glass	1500 mm
for panel	2600 mm	for panel	1250 mm



DOOR HANDLES - AESTHETICS, QUALITY, FUNCTIONALITY

The final shape and aesthetics of our doors depends primarily on details. By selecting the door handles, we get a chance to create a unique and tailored to our needs entrance, which will delight each of our visitors.

MODERN STYLE HANDLES



Handles with a plate on oval rosette



Fixed or turning knob

Rosettes

CLASSIC HANDLES



Knob-handle H3 - long plate

Handle H1 - long plate

Handle H2 - long plate



Knob-handle H2 - short plate

Handle H1 - short plate

Handle H2 - short plate

Minimalistic plates and stainless steel pull handles are currently popular. The illustration shows a decorative ring used instead of classic rosettes.

Optional accessories

To ensure safety and comfort of the family is the primary goal of each of us. We present to you an offer of Wala company of optional accessories dedicated for aluminum doors which includes, among other things, security products against the entry of intruders or, in the case of accidental setting fire.



WST floor restrictor

Provides proper leaf cushioning while opening and eliminates the issue of occurring door cavities and damages.



WBP fire bolt

Protects the door leaf from deflecting and deformation during a fire which may be a result of high temperature.



WBA anti-theft bolt

Anti-theft protection mounted from the side of hinges on the door leaf and frame.



DOOR PULL HANDLES AESTHETICS, QUALITY, FUNCTIONALITY

Wala brackets perfectly fit modern and classic door design. All doors are fitted with an internal door handle (in a coating simulating inox steel) and an outer pull handle made of stainless steel as standard.

We enable creation of one's own equipment composition. Stainless steel pull handles are available in different shapes: bent or straight and in different spacing. Additional handle patterns are available upon request.

POCKET PULL HANDLE



K4-250X200



K1-200X200



K1-250X150



K3-200X200



K4-250X200



K5-200

An alternative to traditional door handles are elegant and minimalist Wala pocket handles mounted in aluminum panel doors. Depending on the requirements of private investors they come in different colors and shapes. There is also a possibility of installing feature lighting.



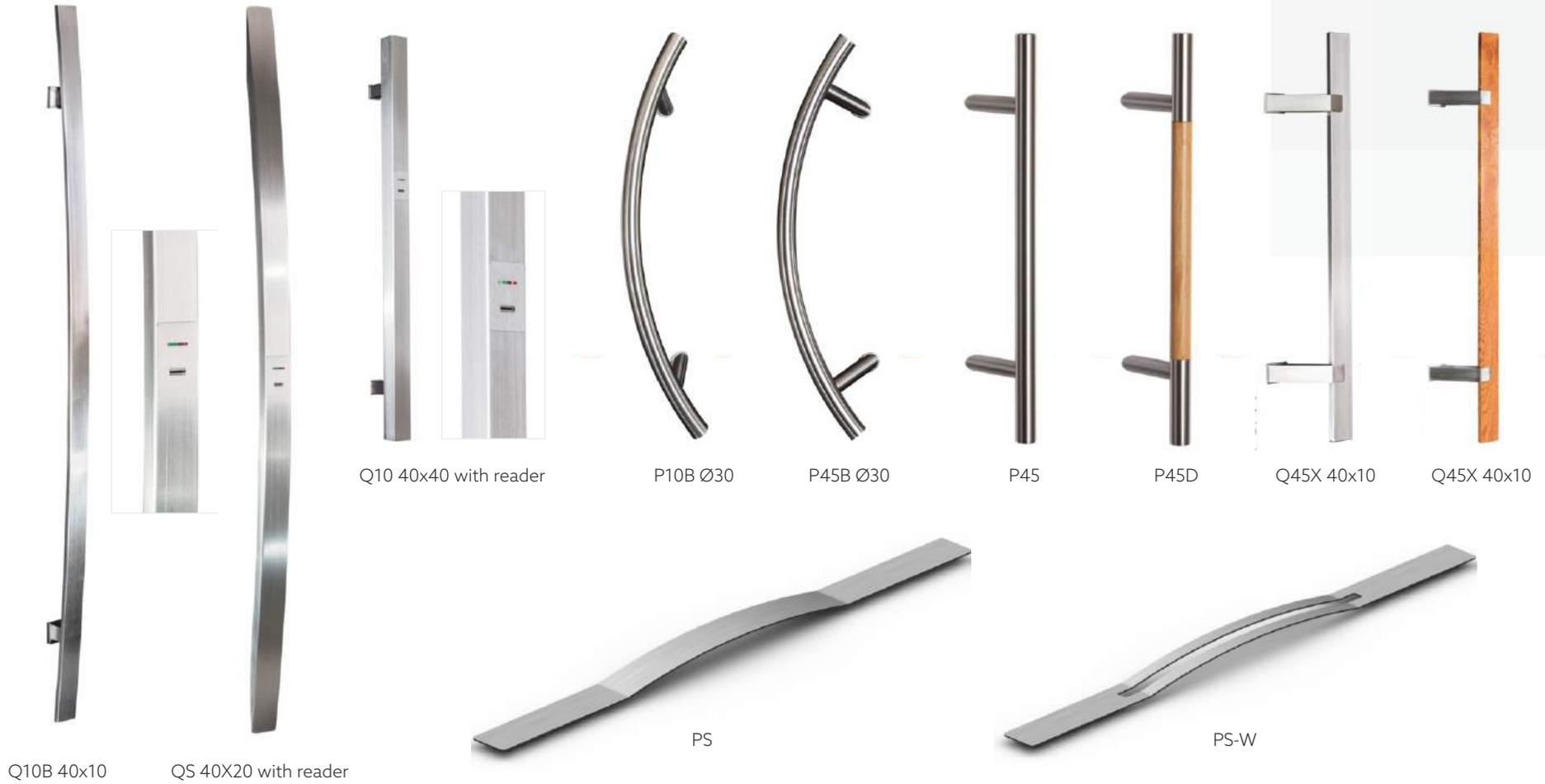
The length of a hand rail is adjusted to individual needs of a client.
Min. length - 40 cm, max. - 200 cm,
difference in length - every 10 cm



DOOR PULL HANDLES AESTHETICS, QUALITY, FUNCTIONALITY



The handles presented below represent only part of models available in our offer. A complete range of pull handles together with an offer from the scope of opening and closing automation is available in the Points of Sale.





DOOR PULL HANDLES AESTHETICS, QUALITY, FUNCTIONALITY

The concept of smart home includes not only solutions for ventilation, lighting or air conditioning, but also those that help us opening and closing doors and windows. Wala offers a wide range of handles with integrated intelligent access systems.



Biometric handle with EKEY fingerprint reader

EKEY reader is dedicated to individual customers. It works ideally for single-family houses and small settlements. The memory of the reader allows you to store up to 99 fingerprints. For safety, it is recommended to add left and right hand finger to the system.



Handle with a touch sensor

This is an extremely comfortable solution allowing for easy door opening by touching the pull handle. After the doors are manually closed or closed using the automatic closer, they are locked again.



Biometric handle with IDENCOM fingerprint reader

A system resistant to manipulation, presents the highest degree of recognition even in the case of varying hand sizes in children or finger injuries.. Leaves no fingerprints. Reader operation is extremely simple. The sensor is integrated into the handle.



Handle with a numeric keypad

The numeric keypad is compatible with electromechanical locks and electric strikers. The solution has a locking mechanism, usually occurring at ATMs, through which the keypad is resistant to manipulation. However, an authorized person can easily unlock the mechanism.

THE LATEST GENERATION OF FRONT DOOR FIXINGS



By selecting the door to our dream home, we need to reflect on many important issues related to their structure. One of the basic decisions we have to make concerns the choice of door hinges. In this case, you might consider the leading supplier of door fittings - WALA. This company offers, among others, surface hinges and roller hinges with CE strength class 14.



Wala surface hinge

Surface hinges guarantee easy installation and adjustment in three planes without removing the leaf. You may select from two- or three-part hinge versions. Their structure and rich pattern-design make the surface hinges are characterized by not only durability, but also aesthetic appearance.

Wala roller hinge

Its style refers to the latest architectural trends. This allows for easy and independent adjustment in three axes. The range of adjustment includes: height, aperture and seal pressure. An ideal solution for individual and showcase enclosure.



Surface hinges
WX 2SK asymmetrical

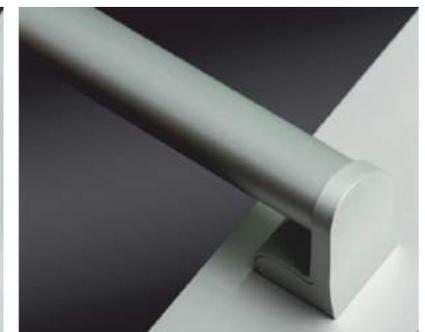


Surface hinges
WX 3SK asymmetrical



Bumpers

Protection of doors infill from accidental damage resulting from e.g. a bike or trolley impact



THE GARDEN STARTS AT HOME TERRACE DOORS

Large glazings are no longer a hallmark of modern housing. Terraces and balconies which are natural elongations of living space are becoming more and more frequent in designs for single family homes. When striving for an accurate finish for such spaces, it is worth choosing aluminium terrace doors.

Glazed walls will add an elegant look to the interior by optically enhancing the size of rooms and opening up the house to the beauty of external surroundings. Terrace exits have to be well-designed and placed accordingly in relation to the cardinal directions of a compass. This will increase the entry of natural light and ensure optimum arrangement of space. Terrace doors do not need as much space as their leaves, which when open, slide open sideways parallel to one another.



Apart from aesthetic aspects, the technical parameters of designed solutions play a significant role and Yawal pays utmost attention to this element. In order to do their job for a whole year without causing energy loss, terrace doors have to present the right level of thermal and acoustic insulation, wind load resistance, and water tightness. Yawal constructs partitions which meet requirements set for passive houses, ensuring a heat transfer coefficient U_f from $0.8 \text{ W/m}^2\text{K}$ (DP 180).

Occasionally, people interested in this solution have certain doubts. Will large-format glazings put the safety of my family at risk? Absolutely not! Anti-theft protection is enhanced by: the material stability of aluminium profiles, firm fitting systems produced by Roto and Wala company, and glass panes of the highest anti-theft classes available.

UNIQUE SOLUTIONS

Yawal terrace door systems allow for making unique and functional constructions adjusted to clients' needs. Due to the type of fittings used, doors are divided into categories:

- lift-slide (HS),
- tilt-slide Patio Alversa,
- tilt-turn, including low threshold solution,
- folded.

The highest class fittings make opening very easy and noiseless - perfect for people who value comfort. The border between the world inside a house and its external surroundings disappears with the single movement of hand. The interesting solution of a hidden external threshold helps the elderly, disabled people, and children.



For those who admire limitless space as an extraordinary addition to the structure of a building, Yawal's specialists have designed corner mullion-free Windows, which allow amazing panoramic glazings.

The colours of terrace doors along with their facade and interior design enhance the individual character of a house. Just as with other aluminium products, the choice is basically limitless: from varnished surfaces, alongside anodised and metallic ones, to structural effects.



DP
180



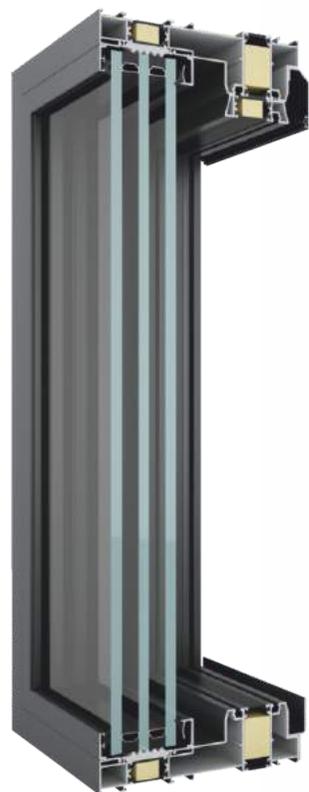
Photo: WYSOKA NOWA Residential, Wysoka k. Wrocławia / Inwestor: C.L.A.- Invest Sp. z o.o. / Projekt: KWK PROMES Robert Konieczny
Aluminium manufacturer: Przedsiębiorstwo Ślusarsko-Budowlane Leszek Pluta, Kielce / APS System Sp. j., Częstochowa

TERRACE DOORS (LIFT-SLIDE) - DP 180

DP 180 is a system used for manufacturing lift-slide windows and doors for outside housing. It is a modern solution based on aluminium profiles and thermal spacers. The construction of the DP 180 system contributes to the reduction of heat loss which lowers the utility costs of use of designed buildings. The construction can be used in family housing and public facilities.



POSSIBILITY OF MANUFACTURING ANTI-THEFT DOORS AND AUTOMATICALLY CONTROLLED DOORS



	Heat transfer coefficient	from 0,8 W/m ² K
	Maximum leaf weight	440 kg
	Permissible leaf width	3300 mm
	Permissible leaf height	3300 mm



Colours: Possibility of manufacturing a profile with any colour from RAL range.

Additional options: anodising, imitating wood, dying with structural paint.

Details on page 66-72.

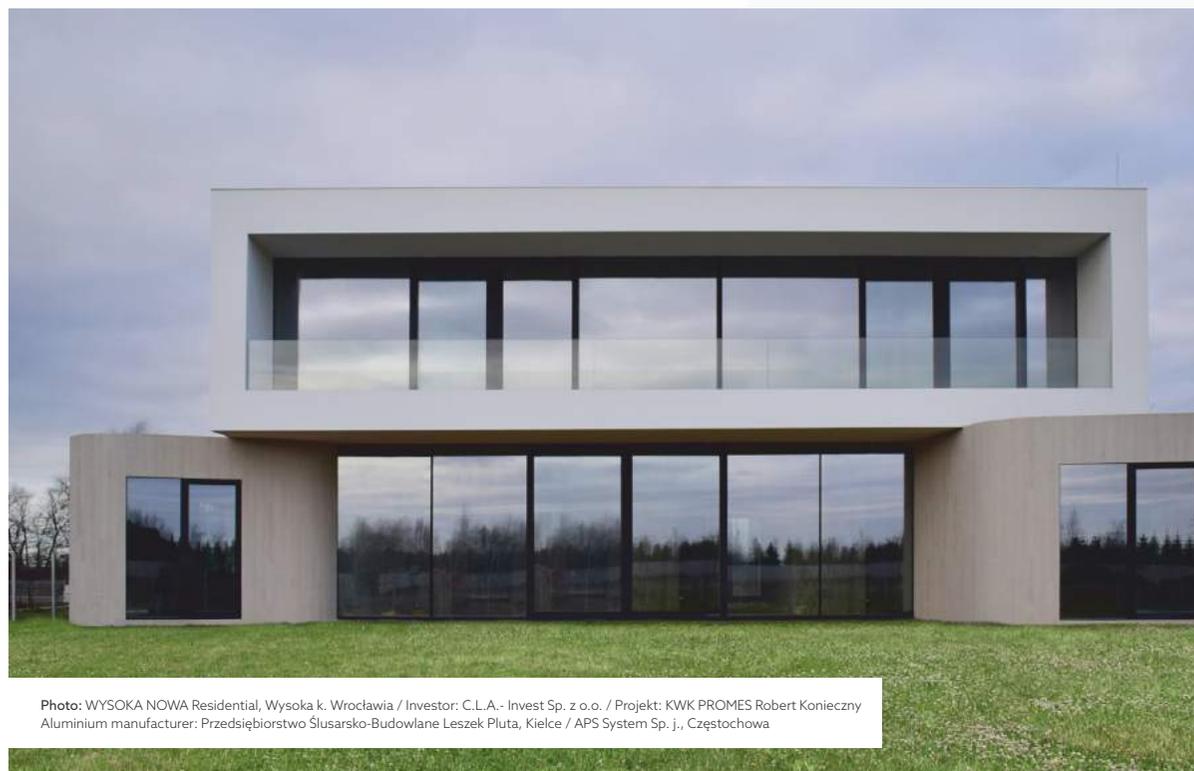


Photo: WYSOKA NOWA Residential, Wysoka k. Wrocławia / Inwestor: C.L.A. - Invest Sp. z o.o. / Projekt: KWK PROMES Robert Konieczny
Aluminium manufacturer: Przedsiębiorstwo Ślusarsko-Budowlane Leszek Pluta, Kielce / APS System Sp. j., Częstochowa

DP
150T

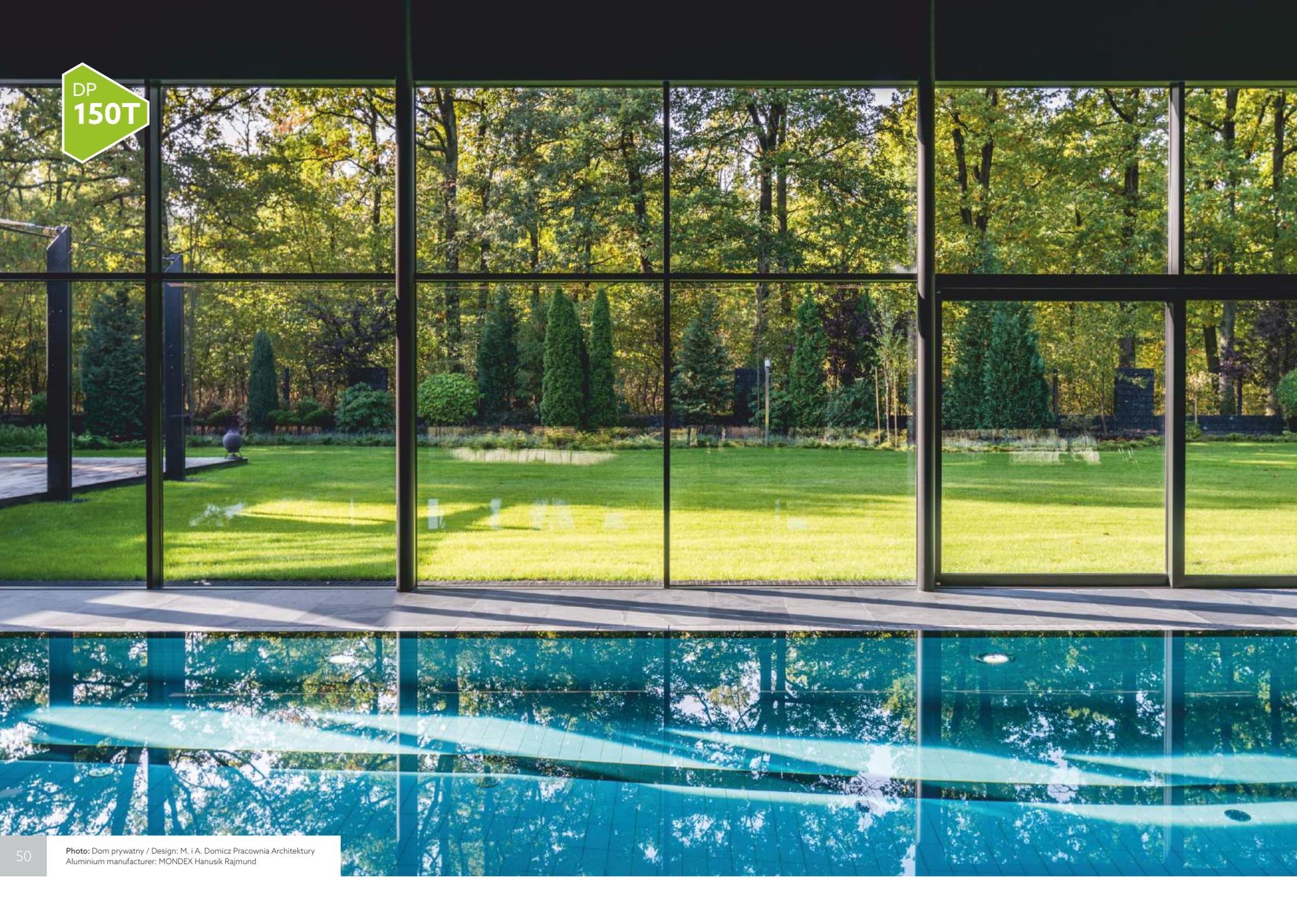


Photo: Dom prywatny / Design: M. i A. Domicz Pracownia Architektury
Aluminium manufacturer: MONDEX Hanusik Rajmund

TERRACE DOORS (LIFT-SLIDE) - DP 150T

The DP 150T system allows for the construction of lift-slide doors. Aluminium profiles for this system were designed in a way that enables high parameters of thermal insulation. The DP 150T system makes it possible to create constructions with a max. height of 3300 mm and max. weight of 400 kg. Lift-slide fittings ensure comfort and ease of use even with large and heavy leaves. Doors of this type are used as external partitions, terrace exits, and doors in conservatories.



POSSIBILITY OF MAKING ANTI-THEFT DOORS AND AUTOMATICALLY CONTROLLED DOORS



	Heat transfer coefficient (Uf)	from 0,9 W/m ² K
	Maximum leaf weight	440 kg
	Permissible leaf width	3300 mm
	Permissible leaf height	3300 mm
	Colours: Possibility of manufacturing a profile with any colour from RAL range. Additional options: anodising, imitating wood, dying with structural paint. Details on page 66-72.	





FITTINGS FOR OVERHEAD SLIDING DOOR - HAUTAU ATRIUM® HS

Flexible overhead sliding system for custom made solutions lifts and slides accurately both, standard elements and large - dimensioned elements that weigh as much as 330 kg (or even 440 kg in tandem option). The HAUTAU ATRIUM® HS fittings technology meets the modern requirements posed energy effectiveness due to application of threshold solution providing high thermal insulation.

THE ADVANTAGE OF HAUTAU ATRIUM® HS SOLUTION IS EXTREMELY QUIET OPERATION THAT GUARANTEES COMFORT TO THE USERS.

Hs fittings allow for uninterrupted view and great perspective. Due to exceptional load capacity - even 13 meters width - HAUTAU ATRIUM HS system provides a wide opening of over 6,5 meters thus eliminating the problem of interfering with the view of fixed posts in the passage

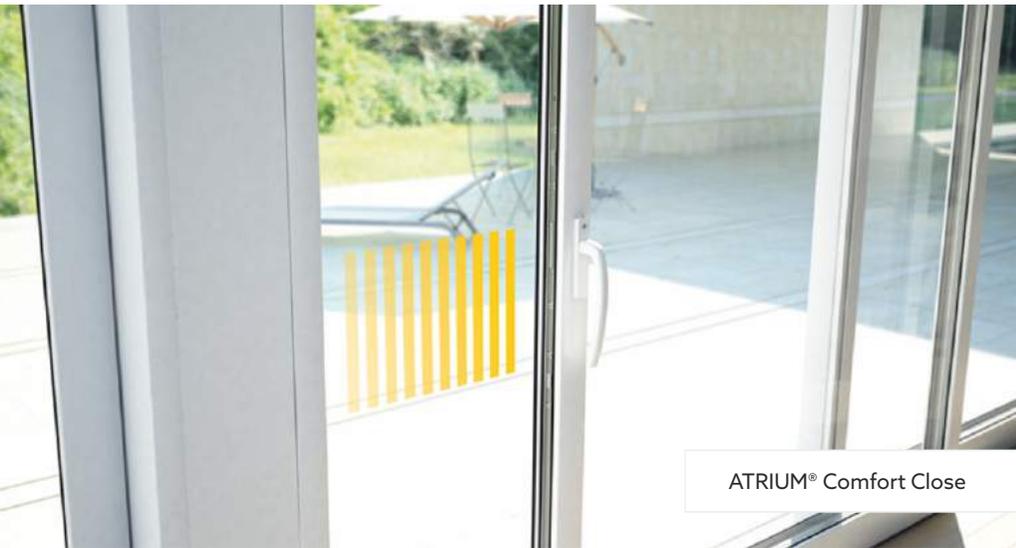


For many years of comfort operation.

Carriages of the HAUTAU ATRIUM® HS system are protected against corrosion and equipped with cleaning brushes. As a result, the guideway is automatically cleaned during the sliding movement. The rollers are protected against dirt and long-term damages. During opening and closing the overhead -sliding fitting ATRIUM® HS uses lever force in espagnolettes and carriages in an optimal way.

The system of fittings for terrace doors allows for application of technologically advanced solutions, among others electric overhead sliding drive.

Should you need further information about smart automatic solutions, please enquire at the Authorised Point of sales of the Oknaalumiowe.pl network.



ATRIUM® Comfort Close

FITTINGS FOR OVERHEAD SLIDING DOOR - HAUTAU ATRIUM® HS



Terrace doors closing system

This solution by Hautau is perfect for admirers of comfort and precision. It will work even in case of large terrace doors, overhead sliding and sliding, that weigh up to 300 kg.

To lock the terrace doors accurately and precisely it is enough to slightly push the leaf. The leaf slows down gently and lightly at one palm width from the locking edge and automatically pulled to closed position.

The ATRIUM® comfort close system is characterised by fine-lined construction. It is possible to install easily additional elements as needed.

HANDLE FOR PATIO LIFT AND SLIDE DOORS ATRIUM HS 300



Exemplary color versions

Example of a handle with a pull handle



ATTENTION TO DETAIL SOFTLINE WINDOWSILLS

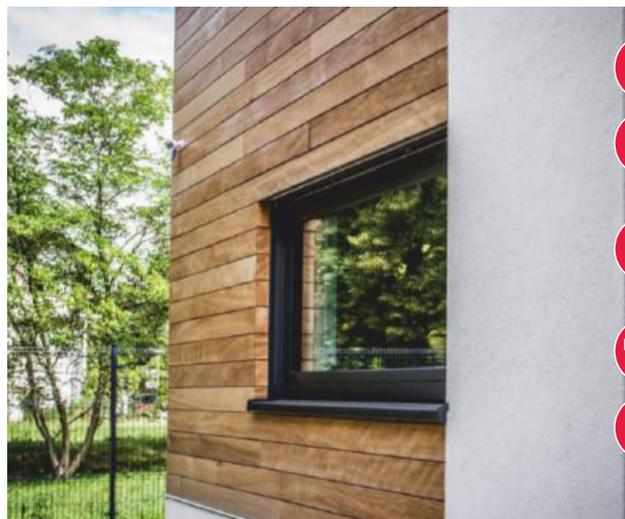
The installation of windows is not the end of our work. It is also necessary to install external windowsills which protect the house's facade from rains and damp. Softline aluminium windowsills can serve as a Smart and light solution to this problem. Their rounded shape provides an optimum water outlet from the facade's plane and makes it impossible for dirt to accumulate.

Aluminium alloys, which windowsills are made of, allow for the use of various structures, colours and painting effects e.g. resembling wood, thanks to which the look of an element can be matched with every architectural style, building's facade, window or external surrounding. Windowsills are additionally covered with a polyethylene film which protects the decorative surface from damage. Depending on users' needs, there is freedom of selection of the sill's width.

Softline aluminium windowsills are stiff and resistant to corrosion. They can be easily cleaned. This solution is completed with finishing elements and the shapes of fastening parts fitted to each type of window, made of material, wood or aluminium so it does not cover water outlets. The ends of windowsills can be made from plastic or prefabricated aluminium.



To avoid loss of energy we recommend a solution of warm windowsills - see an installation example on page 63



	Thickness	from 1 to 1,8 mm
	Length	1000 - 6000 mm
	Width	150 mm; 175 mm; 200 mm; 225 mm; 250 mm; 275 mm; 300 mm; 325 mm; 350 mm
	Ending	plastic/aluminium

 **Colours:** Possibility of manufacturing a profile with any colour from RAL range.
Additional options: anodising, imitating wood, dying with structural paint.
Details on page 66-72.





EVERLASTING ELEGANCE YAWAL ECLIPSE ALUMINIUM SHUTTERS

Shutters can add a beautiful and functional finish to any window. Chosen to match the facade and Windows, they will highlight the individual style of any home.

External window shutters increase comfort by regulating air circulation, sun exposure, and temperature inside the rooms and by limiting the amount of noise which reaches the house. They also protect windows from harsh weather conditions and make it difficult for intruders to break into the house.

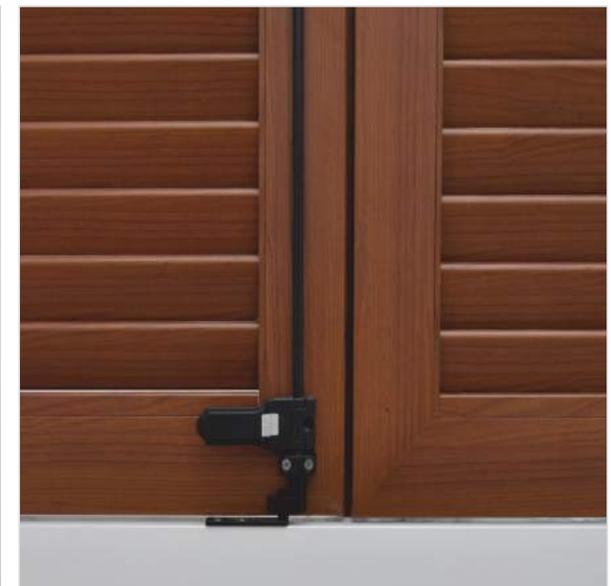
Aluminium shutters can last many years, are easy to clean, and there is no need for regular maintenance. They are an alternative to more expensive wooden shutters which are available on the market. Stiff and at the same time slender frame profiles make Yawal Eclipse shutters suitable for windows, terraces and balcony doors.

Yawal engineers have designed two types of shutters:

- with fixed fins allowing access of light at a certain angle,
- panel shutters, which upon closure achieve absolute darkness.

A rich offer of hinges and fittings allows the installation of shutters to window frames and to the wall. Closed shutters may constitute one plane with a facade, stand out, or be placed in a window cavity.

	Maximum dimensions of 1 leaf	900x2400 mm
	Installation method with fixed fins	to frame, to wall
	Installation method of a panel shutter	to the wall
	<p>Colours: Possibility of manufacturing a profile with any colour from RAL range. Additional options: anodising, imitating wood, dying with structural paint. Details on page 66-72.</p>	



TAKING CARE OF YOUR COMFORT YAWAL SUN PROTECTION

Blinds system perfectly matches the current trends prevailing on the market in terms of functionality and architectural style.

A protection based on Yawal Sun Protection system, that has been properly fixed, allows for protecting the interior against weather conditions. It increases the comfort of residents by reflecting and dispersing the light entering the building. This solution is also economically attractive - shaded interior may decrease the costs of air conditioning.

Oknaalumiowe.pl chain offers two types of blinds to the customers:

- #1 fixed - available in two shapes: elliptic (lens-shaped) or "z" shaped,
- #2 movable - available in elliptic shape. Yawal Sun Control folded blinds are a variation of movable blinds.



	Shape of protection - fixed brise soleils	elliptic / rectangular
	Shape of protection - movable brise soleils	elliptic
	Shape of protection - blinds	Z-shaped
	Protection dimensions fixed brise soleils	100 mm, 150 mm, 200 mm, 240 mm, 300 mm
	Protection dimensions movable brise soleils	100 mm, 150 mm, 200 mm, 240 mm, 300 mm
	Protection dimensions blinds	50 mm, 60 mm, 66 mm, 76 mm, 80 mm, 86 mm
	Colours: Possibility of manufacturing a profile with any colour from RAL range. Additional options: anodising, imitating wood, dying with structural paint. Details on page 66-72.	



**BA
PV**

**BA
50**



BA 50 ALL GLASS BALUSTRADE

Whenever it is necessary to protect people against falling out of balconies or terraces, we recommend using a balustrade. Current architectural trends enhance larger and larger glazing and this trend is also reflected in balustrades designed for terraces located on higher floors of the buildings.

The Oknaalumiowe.pl network offers an all-glass balustrade to private investors. The balustrade is constructed on the basis of the Yawal BA 50 system and it protects the users against falling without limiting the contact with the environment. The balustrades can be installed at any preferred angle, depending on the type of building development. The solution offered by the Oknaalumiowe.pl network meets the current architectural trends due to endless possibilities of colour selection and using freely transparent and non-transparent glazing in system solution of aluminium profiles. The construction and the method of anchoring of the balustrade make this solution easy to adapt to existing constructions of balconies or terraces.



Possible installation of photovoltaic cells



Colours: Possibility of manufacturing a profile with any colour from RAL range.

Additional options: anodising, imitating wood, dying with structural paint.

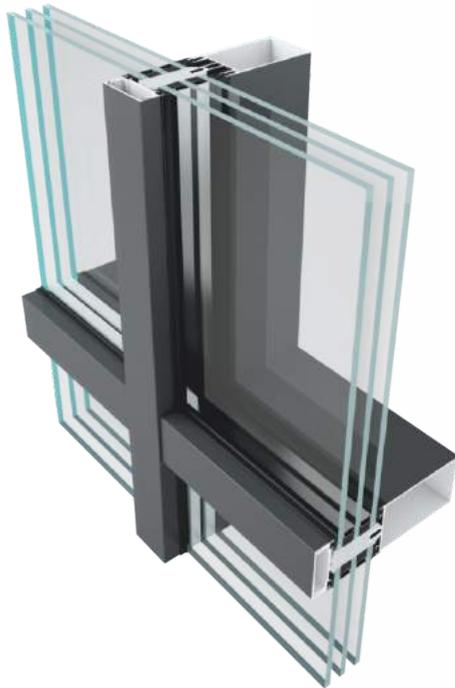
Details on page 66-72.



FA
50N
HI



58 Photo: Dom prywatny / Design: M. i A. Dornicz Pracownia Architektury
Aluminium manufacturer: MONDEX Hanusik Rajmund



MODERN DESIGN TREND GLASS FACADES IN HOUSES

Modern architectural style and new technologies which allow the attainment of a high level of thermal insulation, water tightness, wind load resistance, and anti-theft protection have led to an increasing number of designs of single family houses including glass facades.

The effect of a glass wall can be obtained in numerous ways e.g. by using glazed fixed elements or combining them with large terrace doors or slide windows. Glass facades open up the view to the beauty of the landscape and wonderfully brighten the interior. Thanks to its technologically advanced construction designed by Yawal's experts and applied components, it prevents the over-heating of rooms in the summer and their loss of heat during the winter. Glass facades give lightness to the structure of a building and affect its visual attractiveness. Through the use of Yawal's innovative constructions, it is impossible to distinguish fixed elements from opening ones when outside.

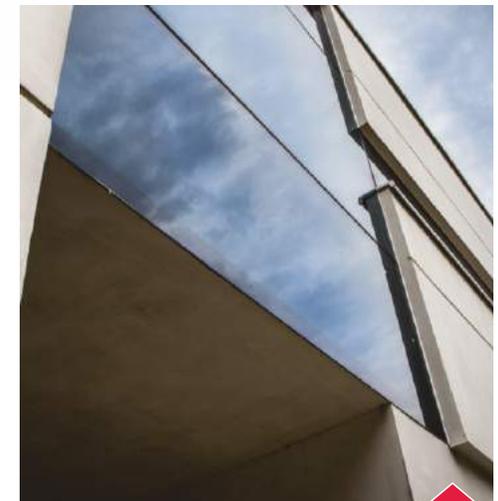
Possibility of installation of opening elements from all systems included in the catalogue.

	Heat transfer coefficient	from 0,7 W/m ² K
	Maximum module weight	600 kg
	Maximum module dimensions	6000x4000 mm
	Anti-theft protection	do RC4

Colours: Possibility of manufacturing a profile with any colour from RAL range.
Additional options: anodising, imitating wood, dying with structural paint.
 Details on page 66-72.



POSSIBLE APPLICATION OF PHOTOVOLTAIC SOLUTIONS



One of the options is a facade without visible profiles (SL solution)

WINTER
CONSERVATORIES

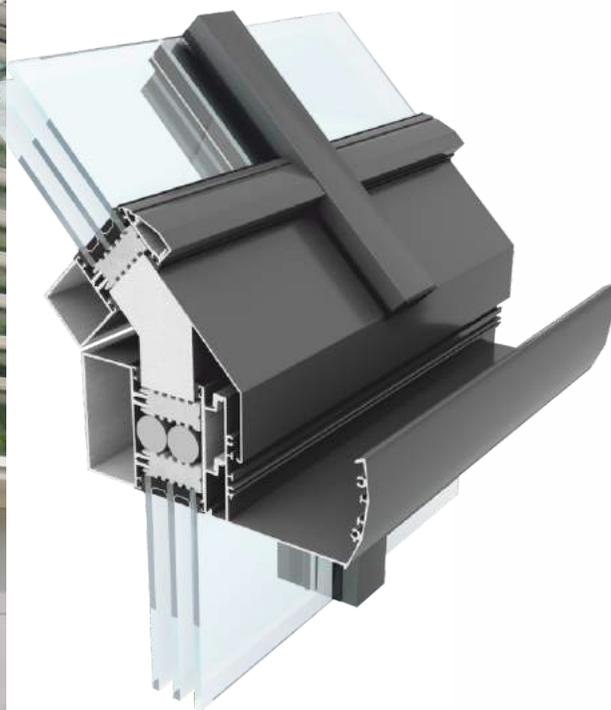


Photo: Palmiarnia, Łazienki Królewskie, Warszawa / Design: Andrzej Jurkiewicz
Aluminium manufacturer: APS-SYSTEM P.Janowski, A.Kmieciak, S.Pelka Spółka Jawna

CLOSER TO NATURE ALL YEAR ROUND CONSERVATORY

Lush greenery, golden leaves, and fairy-tale white surround our family in a relaxing atmosphere. This is the effect that can be achieved by including space for a conservatory in a house project, or by adding it to the structure of an already existing building. An orangery will not only make our house more beautiful by allowing us to admire nature the whole year round, but is also valuable for economic reasons, such as improving the energy balance of a house, and increasing the property's value, thanks to expanding its usable surface. When counting the advantages of this type of solution, we cannot fail to mention the increased access of sunlight to rooms.

Our company's offer does not include schematic, ready-made conservatories. Each project is an individually designed construction, which accommodates for the needs and requirements of our clients. In order to be able to use the conservatory the whole year round, we include aluminium profiles with thermal insulators which enable a high level of thermal insulation. The use of aluminium, which is characterised by its material stability, in the construction of conservatories, and properly chosen glass panes, ensures a high level of anti-theft protection.



Possibility of installation of opening elements from all systems included in the catalogue.

	Heat transfer coefficient	from 0,7 W/m ² K
	Maximum module weight	600 kg
	Maximum module dimensions	6000x4000 mm
	Anti-theft protection	to RC4

Colours: Possibility of manufacturing a profile with any colour from RAL range.
Additional options: anodising, imitating wood, dying with structural paint.
Details on page 66-72.



Photo: Palmiarnia, Łazienki Królewskie, Warszawa / Design: Andrzej Jurkiewicz
 Aluminium manufacturer: APS-SYSTEM P.Janowski, A.Kmieciak, S.Pełka Spółka Jawna

AUTHORIZATION OF ASSEMBLERS

Purchase of windows and doors, choice of glass facade or winter garden are decisions made for years. Aware consumers thoroughly consider what material should be used to make their window profiles and what technical parameters they must be characterized by to ensure warmth and protection from noise and humidity. No less time is dedicated to adjust windows and doors to the architectural style of the whole building. The same conscious consumers often forget, however, that the key issue is correct installation as well as maintenance and adjustment, so that windows and doors retain their properties for a longer period.

Oknaalumiowe.pl network took care of its customers also in this aspect! Each product purchased from an Authorized Point of Sale you will be able to order together with professional installation which will be carried out by an Authorized Assembler of our network.

Services of Authorized Assemblers include:

- precise measurements in the customer's house,
- choice of installation method for windows and doors relative to the condition of the building,
- implementation of technologically advanced solutions for automation,
- warranty and post-warranty service,
- paid periodic checks elongating the warranty to 6 years,
- installation of not only windows and doors, but also more complicated structures that make up winter gardens or facades.

Assemblers of the Oknaalumiowe.pl network also have the authorization of the Polish Windows and Doors Association within the educational campaign called Good Installation.



Each assembler willing to get the authorization of the oknaalumiowe.pl network will have to undergo a series of trainings organized by strategic program Partners in the field of correct installation and maintenance, i.e.: aluminum profiles, fittings, locks, seals, automation or fixings. After going through all the training steps theoretical and practical examination will be carried out. The assemblers who obtain a satisfactory result, will be awarded a Certificate of Authorized Assembler of the Oknaalumiowe.pl network and authorization of the Polish Windows and Doors Association within the campaign called Good Installation.

You will recognize our specialists from afar! Each one has high-quality Proline tools and power tools, and a brand suit of Lahti Pro owing to which they are identified with our network.

The up-to-date list of Authorized Assemblers may be obtained from our Counselors in Authorized Sales Points.

OPT FOR WARM FITTING!

Selection of energy-efficient aluminium windows is just the beginning of our way!

Now the purchased products must be properly fitted to do the work and help us in saving on heating and air-conditioning costs. Correct fitting counteracts against moistness of insulation and construction materials. It is worth to ask an Authorised Fitter at Oknaalumiowe.pl network for advice on selecting best fitting method.

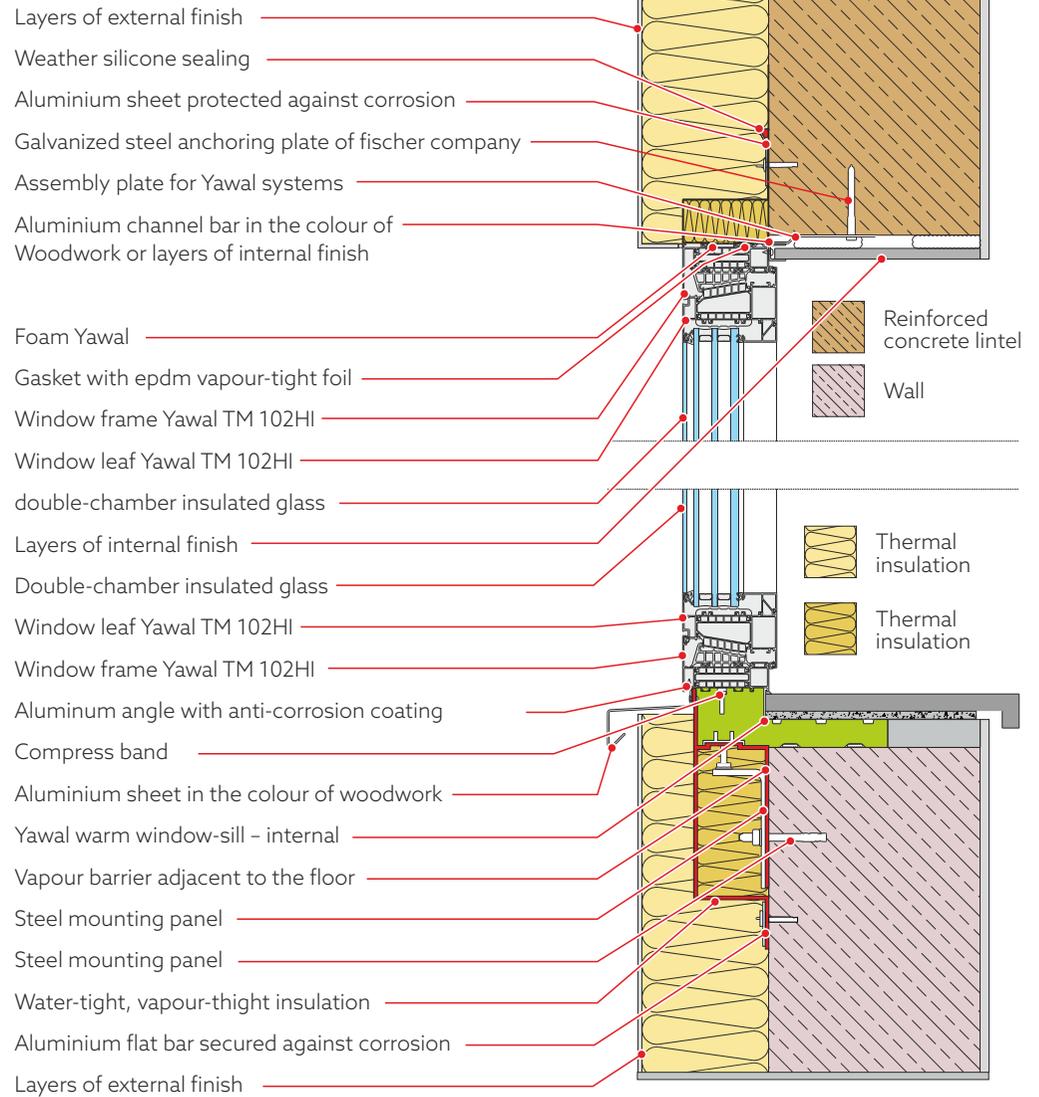


The greatest disadvantage of traditional fitting method of windows and doors is creating thermal bridges that cause thermal losses and moisture hazard where the window touches the wall. To eliminate those serious problems it's worth to go for a layered fitting technique.

Continued overleaf ►►

DIAGRAM OF WARM ASSEMBLY

ON THE EXAMPLE OF WINDOW BASED ON TM 102HI



OPT FOR WARM FITTING!

The crux of warm fitting is setting the window not directly into the wall, but into a layer of insulation.

This technique is used in case of two- or three-layer wall. With layer fitting it is crucial to build an appropriate scaffolding structure that will support our window.

Such a structure is composed of metal elements screwed to the wall at the base of window opening, the so called main supports or heavy load consoles and side supports.

The type of anchors and the method of assembly are specified in the designing documentation containing fitting plan with regard to the weight of the window, the material of the wall and the distance of protrusion of the window from the wall. Authorized Assemblers of Oknaalumiowe.pl program use materials produced by the best companies e.g. fisherpolska fixing systems.

The distance between supports and corners and supports and mullions should be app. 15 cm.
The maximal allowable distance between anchors is 70 cm.



The heavy load consoles are mounted inside the window opening or on the face of the wall, and the side supports are located at the top and on the sides of the window opening. The heavy load consoles are connected with the window profile by means of special screws.

The technique of warm fitting uses three layers of insulation. A foil or tape with water vapour permeability properties that allows for diffusion of water vapour but protects against adverse effects of precipitation.

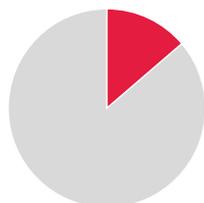
The middle layer functions as thermal insulation and is made of polyurethane foam. The internal layer is made of vapour-tight tape or foil to protect the layer of thermal insulation from humidity permeating from the inside of the house.

Remember! The contact point between the window and the wall is a neuralgic point exposed to serious defects causing that even the highest class windows will not meet our expectations unless we choose a proper manner of installation.

OPT FOR WARM FITTING!

The Oknaalumiowe.pl is a strategic partner of the educational campaign, GOOD INSTALLATION. The main objective of the campaign is to draw the attention of investors, contractors and individual consumers to the importance of properly performed installation of windows and doors. Installation of doors, windows and other fittings is done only once, that is why it is very important it is conducted by qualified assemblers. Otherwise, the costs associated with heat loss will be borne for many years.

Not tight, badly fitted joinery generates:



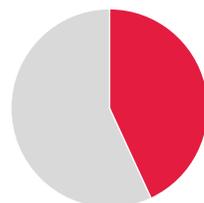
from 15%

of heat loss in single-family houses



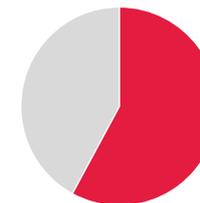
up to 25%

of heat loss in apartment buildings



up to 45%

Even



60% of complaints regarding windows and doors relates to installation defects

The presented data were collected during the educational campaign Good Installation



LEADER OF FIXINGS

Authorized Assemblers of the Oknaalumiowe.pl program pay particular attention to the quality of components and fixings used for installation of broadly taken aluminum joinery. Their long experience shows that the best choice on the market are fixings and anchors of the fischer brand.

Why fischer brand products?

- The range of 14,000 products allows to solve every problem related to fixing techniques.
- A special application of the fischer company called fixperience facilitates and supports dimensioning of anchorages for the client.
- The most innovative company in our industry - fischer Group claimed more than 1,500 patents!
- Fischer safety guarantee manifesting in innovative products and support in the form of service and advice, as well as organized trainings.
- Every system of fixings of fischerpolska has the necessary approvals issued by European institutions - ETA and national - ITB.



POWDER COATINGS.

IGP-DURA[®]xal - ELEGANT SURFACES WITH DULL MATT FINISH FOR TOP QUALITY DESIGNS

IGP-DURA[®]xal is more than a simple powder paint! Elegant IGP-DURA[®]xal paint highlights a unique nature of material and gives it a delicate microstructure, imitating noble mat metal.

The main advantages of IGP-DURA[®]xal powder paints include: ease of cleaning, resistance to impact of adverse weather conditions and mechanical damage. Paint does not contain toxic substances, thus it is friendly to users and the environment.

COLOR CHARTS

xal-Classic 01



xal-Classic 31



xal-Classic 32



xal-Trend 1



xal-Trend 10



xal-Trend 3



xal-Classic 33



xal-Classic 34



xal-Classic 35



xal-Trend 4



xal-Trend 5



xal-Trend 6



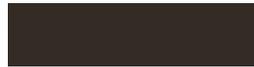
xal-Classic 36



xal-Classic 37



xal-Classic 38



xal-Trend 7



xal-Trend 8



xal-Trend 11



xal-Style 21



xal-Style 22



xal-Style 23



xal-Design 20



xal-Design 12



xal-Design 15



xal-Style 30



xal-Style 25



xal-Style 26



xal-Design 17



xal-Design 21



xal-Design 22



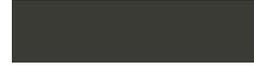
xal-Style 27



xal-Style 28



xal-Style 31



xal-Design 25



xal-Design 24



xal-Design 26



The colours presented above are for reference only, for the full colour range please ask our Advisors at the Authorised Points of Sale.

IGP-DURA[®]xal - colour range

PEARL MICA EFFECT IGP – AESTHETIC PROTECTION OF FACADES



POWDER COATINGS.

The catalogue of pearly paints of IGP contains examples of pearly colors with standard and high resistance to weather and different degrees of gloss and surface kinds. Thanks to the unique effect of glazing and excellent surfaces, IGP's pearlescent powder is one of the most popular paints in the market.

The particles of pearly effect reflect part of energy consuming shortwave UV radiation and long-term heat radiation and thus support the stability of shine and color. Powder systems and paints with easy-to-clean additives have a positive effect on reducing the frequency of necessary surface cleaning.

Mat - Pearly Haze	Mat - White Aluminium	Satyna - Cast Aluminium	Mat - Pearly Alabaster	Mat - Ore Grey	Sat. - Grey Hammertone
Mat - Ashes Mica	Mat - Medium Grey	Satyna - Zinc	Mat - Limestone	Mat - Copper	Satyna - Aged Copper
Mat - Cast Iron	Mat - Ferrite	Satyna - Carbon	Mat - Golden Honey	Mat - Medium Quartz	Satyna - Aged Brass
Mat - Bright Clay	Mat - Dark Clay	Satyna - Hematite Black	Mat - Quartz	Mat - Golden Brown	Mat - Smokey Quartz
Mat - Dark Bronze	Mat - Medium Bronze	Satyna - Young Bronze	Mat - Rust Mica	Mat - Arch. Bronze	Mat - Dark Bronze
Mat - Khaki Bronze	Mat - Slate Metallic	Satyna - Scattered Black	Mat - Silver Grey	Mat - Iron Grey	Mat - Carbon

The colours presented above are for reference only, for the full colour range please ask our Advisors at the Authorised Points of Sale.



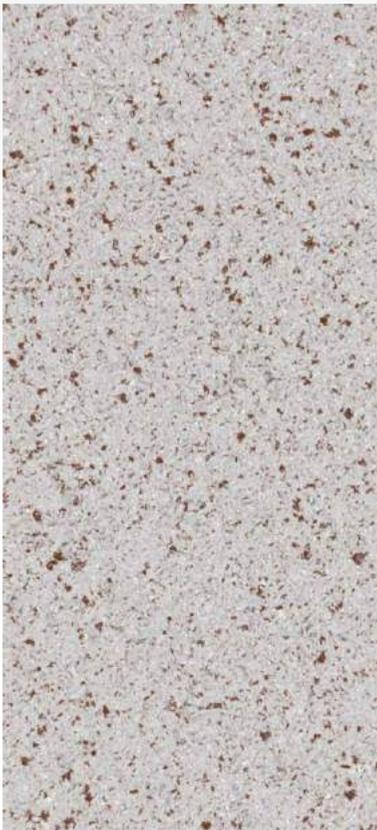
POWDER COATINGS.

IGP-LivingSurfaces THREE FORMS OF NATURE

LivingSurfaces product series is a reaction of IGP company to the trend of "living" surfaces.

Living surfaces are surfaces consciously heterogeneous in terms of distribution of pigment or effect. While various semi-finished products must meet strict tolerances in terms of material and technical and color constancy, major multi-ingredient combination of powder paints with characteristic effects may show individual and optically visible variances of individual production batches to the likeness of quarried blocks from the same quarry.

swiss quality



IGP- LivingSurfaces Hazelnut



Spotted effect

Clear and homogeneous in terms of color surfaces are rare in the nature and exist only in uniformly defined chemical structures. We are far more interested in the surfaces of biogenic or inorganic substances in which individual colored particles depending on the surface and distance from the object determine physiological color synthesis and their overall impression.

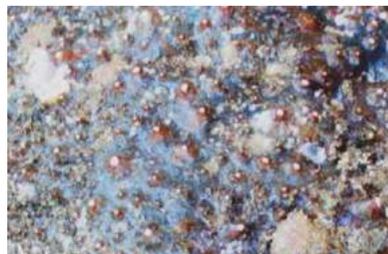
Coarse-crystalline plutons such as granite often show the spotted effect in different variations.



Corrugated structure

Corrugated structures of sand dunes, river deltas or biofilm patterns are created in accordance with the rule of self-organization. They are a result of water or air currents flowing over the sticky layers which under the influence of changing severity form patterns similar to waves on the surface. The top layer of such a structure can by waving its cells greatly enlarge the surface area and in this way optimize the exchange of temperature and gases with the environment.

Similar to waves, sand patterns are the perfect example of wavy structures formed under the influence of the wind.



Granular structure

Porous mixtures of mineral and organic structures with a knotty nature, such as e.g. beetle armor scatter light rays. Light dispersion suppresses shine and allows you to blur the outlines. The surface seems to be more massive and heavier. Powder coating materials with specific grain size curve give rise to varied and vibrant textures.

This magnified sea spider is an example showing that granular structures exist in the nature in various forms.

IGP-LivingSurfaces
THREE FORMS OF NATURE



POWDER COATINGS.

SPOTTED EFFECT

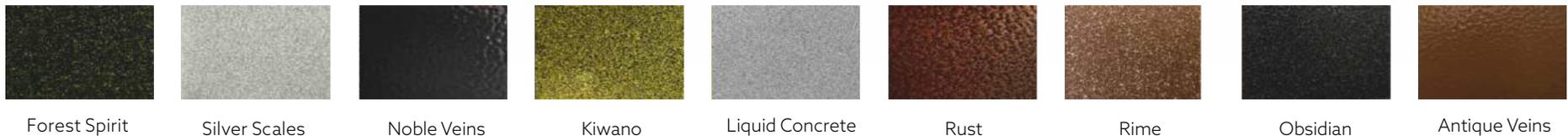
A sensuous and easy-to-clean microstructure. The base color is supplemented by adding finely distributed contrasting and/or effect-imposing components.



Bourbon Vanille Patina Dark Corten 3 Cold Sand Shimmering Thulit Dark Corten 1 Mossy Grey Padang Dark Corten

CORRUGATED STRUCTURE

Satin surfaces with flatly floating faults. Monochrome variants are granted an agitated surface effect under the influence of play of light and shadow.



Forest Spirit Silver Scales Noble Veins Kiwano Liquid Concrete Rust Rime Obsidian Antique Veins

GRANULAR STRUCTURE

Specific grain size curves allow for raising deeply mat structures similar to three coat plaster. Lacquered objects appear massive and mineral.



White Gravel Rambutan Slate Arenaria Loam Blue Plaster Jurassic Grey Rough Coal Hazelnut

The colours presented above are for reference only, for the full colour range please ask our Advisors at the Authorised Points of Sale.

WOOD-LIKE COLORS



916/1501 - MAPLE



916/1402 - BRIGHT OAK



916/2103 - PINE



916/2901 - IVORY



916/1406 - BIRCH-TREE



451/2103 - PINE



451/1406 - CHERRY



451/1403 - CHERRY



451/1402 - CHERRY



451/1401 - CHERRY



451/1704 - MAHOGANY



682/2901 - IVORY



716/1401 - CHERRY



716/1402 - CHERRY



716/1501 - KNOT-FREE PINE



716/2103 - PINE

The colours presented above are for reference only, for the full colour range please ask our Advisors at the Authorised Points of Sale.

WOOD-LIKE COLORS



725/1403 - DOUGLAS FIR



733/1401 - CHERRY



733/1402 - CHERRY



733/1403 - DARK CHERRY



733/1829 - WALNUT



739/1406 - CHERRY



739/2301 - GOLDEN OAK



742/1406 - CHERRY



742/1704 - MAHOGANY



746/1829 - WINCHESTER



775/1403 - CHERRY



775/2301 - WALNUT



797/2305 - OAK



775/2516 - BOK OAK



451/2805 - ZEBRANO

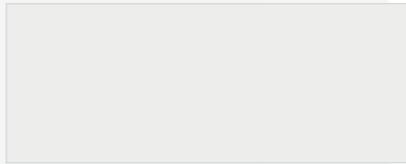


451/2901 - IVORY

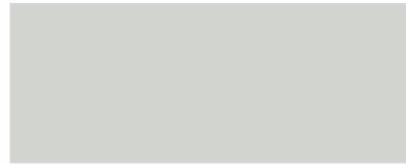
The colours presented above are for reference only, for the full colour range please ask our Advisors at the Authorised Points of Sale.

ANODISING

The company performs anodizing of aluminum profiles under strict technological supervision according to the Qualanod requirements in order to guarantee the quality of produced anodic coatings. The quality of anodic coatings is confirmed with QUALANOD quality mark, Certificate No. 1802.



C-0 E2



C-0 E2T



C-31 ES



C-32J ES



C-32C ES



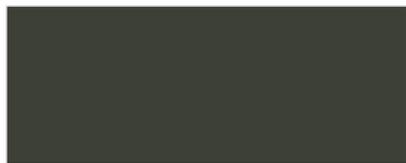
C-33J ES



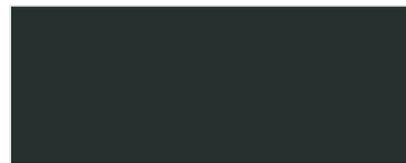
C-33C ES



C-34J ES



C-34C ES



C-35 ES

The company performs anodizing of aluminum profiles under strict technological supervision according to the Qualanod requirements in order to guarantee the quality of produced anodic coatings. The quality of anodic coatings is confirmed with QUALANOD quality mark, Certificate No. 1802.

The colours presented above are for reference only, for the full colour range please ask our Advisors at the Authorised Points of Sale.



WORKING TOOLS AND CLOTHING **PROFIX**

Profix company operating in the area of production and trade. Is a supplier of high-quality hand tools, power tools, technical chemistry and working clothes. The company employs 250 workers and is one of the largest distributors of tools and power tools in Poland. It is responsible for the entire process of purchase of goods from manufacturers. Manages and organizes a sales network, produces under own brand names, leads the logistic service, implements planned marketing activities. Supports its customers by joint marketing activities. The Profix sales network consists of over fifty Sales Offices covering the territory of the whole country. Profix also conducts export sales to many countries of Europe. PROFIX's offer includes quality PROLINE tools, TRYTON and VULCAN power tools for professionals and hobbyists, and LAHTI PRO OHS-related products which combine safety and modern, trendy design



SECURITY IN FASHION



Work clothing of the Lahti Pro brand is a modern line meeting the highest quality standards, designed for user safety, comfort and elegance. Scandinavian design provides a clean, stylish and versatile form. Innovative materials from which the Lahti Pro work clothing is made are subjected to multi-stage testing in extreme conditions. Lahti Pro means comprehensive OHS solutions almost for each professional group.

TOOLS WITH PERSONALITY



The PROLINE brand was created by experienced designers who have been working on the development of hand tools both domestically and abroad for years..

The company's products have been designed in accordance with the motto "a good tool for better work". Durable and carefully made PROLINE hand tools have been checked by professionals in extreme conditions.



FISCHER - FIXING ANCHORS

Fischerpolska belongs to a German group which is present in 18 countries and has 10 manufacturing facilities located around the world. In addition, over the past five decades the Group has provided close to 1,000 inventions in many areas of engineering.

Fischerpolska brand is the market leader in all major product groups associated with fixing. The ultimate goal of Fischerpolska is responsible and reliable customer service, and the main business area of the company are innovative mounting systems. Fischer has in its portfolio over 14,000 products owing to which it is able to find a solution to each problem connected with fixing. The company currently holds 6,000 different technical solutions for each building material and for every application. It has also a heritage of 14.5 million fixings sold worldwide.



HAUTAU - PATIO DOORS FITTINGS

A brand of construction fittings, Hatau, was established in the year 1910 and until now these systems are designed, produced and sold only as qualitative fittings. All the company fittings are produced in the manufacturing plants located in Germany. The company is divided into the following areas of activity:

- research and development,
- tools design,
- tools construction,
- construction of special machines.



POWDER COATINGS. IGP - POWDER PAINTS

IGP Pulvertechnik Polska Sp. z o.o. company is a part of IGP Pulvertechnik AG group - a producer of the highest quality powder paints. IGP Pulvertechnik AG was created in 1968 by well-known Swiss companies of the chemical industry. It is one of the companies that significantly contributed to the invention of powder coatings and promotion of this organic technology.

Ongoing research and development works provide a solid basis for the production of high-quality powder paint systems, in particular, applied to facades.





ROTO - FITTINGS AND LOCKS FOR ALUMINUM WINDOWS PANEL DOOR LOCKS



An international Group of Companies Roto Frank AG headquartered in Germany near Stuttgart is a global leader in technologies for turn-tilt windows and balcony doors, and a leading manufacturer of roof windows. The Roto company has been on the market since 1935.

Roto products are manufactured in 17 manufacturing plants and distributed through 40 sales companies around the world.

In the industry of fittings Roto brand is synonymous with innovative and reliable system solutions, developed by a team of the best designers and engineers. Roto Smart solutions combine security, energy management and comfort in buildings.



WALA - FITTINGS FOR PANEL DOORS



WALA is a leading Polish manufacturer of fittings for construction joinery. It has been on the market unceasingly since the year 1980, offering a wide range of door hinges, transoms, handles, door brackets - including brackets equipped with popular access systems.

For the sake of the highest quality fittings the company uses the best materials and modern technology in their production which significantly raises their durability, safety and comfort of use. The products are subjected to special tests conducted in approved testing centers in the country and abroad, i.a. ITB, IFT Rosenheim in which they score the highest categories of use. Wala products are known and appreciated by a growing group of producers, as evidenced by cooperation with many system companies and a network of fittings distributors throughout the country.



ALUMINUM JOINERY



Yawal S.A. - one of the leading suppliers of aluminum profile architectural systems in Poland. Its position is a result of the experience gained during more than 25 years of existence and a wide range of innovative solutions.

The company's systems are environmentally friendly, energy-efficient structures for construction of windows, doors, facades, partition and curtain walls, winter gardens, skylights, railings and sun visors.

The requirements of modern architecture undergo rapid changes, therefore in addition to the standard range of aluminum systems contained in the catalogue of the company, Yawal S.A. also offers the possibility to create unique design solutions designed for implementation in commercial, industrial and residential buildings.

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 **HAUTAU**


POWDER COATINGS.

LAHTI PRO 
BEZPIECZEŃSTWO W MODZIE

PROLINE 
NARZĘDZIA Z CHARAKTEREM


Roto


OKUCIA DO STOLARKI ALUMINIOWEJ

YAWAL 
ALUMINIUM + ARCHITEKTURA