



35 *years together*
FAKRO®

NEW GENERATION
ROOF WINDOWS
GREENVIEW

NEW STANDARD FOR NEW TIMES



For more than 35 years, we have been creating roof windows that have changed the way attics are perceived. Each new generation of our products is a response to changing user needs and the challenges facing modern construction. We develop solutions that combine comfort, safety, modern design, and high energy efficiency.

From the very beginning, the color green has been a symbol of the FAKRO brand. Today, it reflects our long-term operational strategy aimed at reducing the environmental impact of production processes.

This is the foundation of the GO GREEN philosophy. It defines the direction for the development of our products through the implementation of efficient resource management and the use of recyclable materials.

We design, plan, and manufacture with environmental aspects in mind. We continuously develop our environmental management strategy and social initiatives, improve our production processes, and pursue our environmental goals, which are described in detail in our public ESG reports. The information contained in these reports is based on verified data and independent external assessments. This philosophy has inspired the development of FAKRO's product range, and its direct result is the new generation of GREENVIEW roof windows.

DECLARATIONS AND TRANSPARENCY



VISIT THE DECLARATIONS
AND TRANSPARENCY PAGE

Scan the QR code to access the website
with FAKRO product documentation and information.
On the website you will find:

- Product technical documentation,
- Declarations of Performance (DoP),
- FAKRO ESG Report,
- Certificates,
- A contact form enabling you to obtain additional information and documentation

GREENVIEW

The new generation of GREENVIEW roof windows was created with modern homes and their occupants in mind. It is the result of many years of experience, technological development, and the consistent improvement of innovative construction solutions. The improved thermoPro window design and advanced glazing packages increase airtightness and durability, enhance thermal comfort throughout the year, and support the building's energy efficiency.

The practical implementation of the GO GREEN principles is confirmed by measurable technical parameters. GREENVIEW roof windows have received, among others, the Carbon Footprint Approved certificate. This certification is granted by the Carbon Footprint Foundation to products manufactured in an environmentally and socially responsible manner. To obtain the certificate, products are assessed in five areas: energy, transport, waste management, sustainable development, and social responsibility. The assessment provides documented information on the environmental and social criteria included in the programme for the products covered by the certificate.





WOOD – NATURAL BEAUTY IN YOUR INTERIOR

Wood has held a special place in interior architecture for generations. Valued for its appearance, properties, and finishing possibilities, it gives rooms a warm and timeless character. In GREENVIEW wooden roof windows, the natural beauty of wood is combined with FAKRO's experience.

NOBLE MATERIAL

Wood is one of the most valued materials used in window production. Visible annual growth rings give interior spaces a warm and timeless character, making wood an integral element of both modern and classic interior designs.

WOOD PROPERTIES

Wood is characterized by high structural rigidity, low thermal expansion, and the ability to naturally exchange moisture with the surrounding environment. Wood can help balance small fluctuations in indoor humidity and support indoor comfort. The final effect also depends on ventilation, heating, room use and building conditions.

An additional advantage of wood is the possibility of refinishing the surface of the profiles. This allows the appearance of the window to be refreshed without replacing the entire structure.

MAIN ADVANTAGES OF WOOD:

- /// Natural moisture exchange with the environment
- /// Low thermal expansion
- /// High structural rigidity
- /// Possibility of renewing the profile surface finish



CAREFULLY SELECTED WOOD

GREENVIEW wooden roof windows are made from carefully selected pine wood. This material has long been used in the production of roof windows and is valued for its properties and natural appearance.

WOOD INSIDE. ALUMINIUM OUTSIDE.

On the inside, natural wood retains its authentic character. On the outside, the window profile is protected by aluminium cladding, shielding the window from weather conditions. This combination uses wood indoors while benefiting from the protective properties of external aluminium cladding.

FINISHING TAILORED TO THE PROJECT

GREENVIEW wooden roof windows are standardly finished with a clear lacquer that highlights the natural beauty of the wood. The range also includes windows with a white polyurethane lacquer, intended for rooms with increased humidity, such as bathrooms and kitchens, as well as windows available in RAL colour options.

35 YEARS OF EXPERIENCE WORKING WITH WOOD

Since the beginning of FAKRO's operations, wood has remained the most important material used in the production of roof windows. More than 35 years of experience have enabled us to create a new generation of GREENVIEW wooden roof windows, combining the natural beauty of wood with modern construction solutions.



Natalia Pacierpnik
slalom canoeist

GREENVIEW WINDOWS DESIGNED...



... TO REDUCE HEAT LOSS

The new generation of GREENVIEW roof windows has been developed to reduce heat loss and lower the demand for energy needed to heat buildings.

The innovative design, featuring a higher sash profile and a triple-glazed unit with a thickness of 44 mm, allows the glazing to be seated deeper within the sash structure. This solution helps reduce the formation of thermal bridges at the junction between the glazing unit and the frame.

GREENVIEW roof windows are available with glazing units achieving a U_w value of up to $0.71 \text{ W/m}^2\text{K}$. The thermoPro technology used additionally supports airtightness and durability of the window structure. The use of a warm TGI spacer further helps to reduce heat loss and lower energy consumption for heating the building. Actual results depend, among other factors, on the building's energy standard, installation method, and operating conditions.

THE ENERGY-EFFICIENT DESIGN OF GREENVIEW ROOF WINDOWS HELPS REDUCE HEAT LOSS IN THE ATTIC.

... FOR COMFORT AND ACCESS TO DAYLIGHT

FAKRO manufactures roof windows that provide natural daylight indoors, supporting the comfortable use of attic spaces throughout the day.

The preSelect opening system enables a steady flow of fresh outdoor air while minimizing heat loss. This solution supports effective room ventilation and helps maintain comfortable living conditions in attic interiors.

THE MODERN DESIGN OF GREENVIEW ROOF WINDOWS HELPS MAINTAIN COMFORTABLE CONDITIONS IN ATTIC SPACES.

... FOR BURGLARY PROTECTION

GREENVIEW roof windows incorporate design solutions that increase resistance to forced entry and improve user safety. One such feature is the proprietary topSafe reinforcement system.

THE TOPSAFE SYSTEM USED IN GREENVIEW WINDOWS ENHANCES PROTECTION AGAINST BURGLARY.





Ewa Novel
singer

GREENVIEW
WINDOWS
DESIGNED...



... FOR NOISE PROTECTION

The P50 glazing unit features a special double sound-insulating film that helps reduce noise coming from outside. Its high acoustic insulation contributes to greater comfort in attic rooms.

HIGHER ACOUSTIC INSULATION OF GREENVIEW WINDOWS COMPARED TO DOUBLE-GLAZED UNITS.

... FOR SAFE USE

GREENVIEW windows are equipped with solutions that enhance user safety and resistance to forced entry. The toughened external glass is covered by FAKRO's lifetime warranty against hail damage, subject to the warranty terms for the relevant market.

The P50 glazing unit is equipped with an internal laminated pane of class P2A, incorporating two layers of film. This solution increases the glass's resistance to breakage and is one of the elements that improve window safety. In the event of glass breakage, the fragments remain attached to the laminated film, reducing the risk of injury.

ENHANCED SAFETY AND PROTECTION.

... FOR EASIER GLASS MAINTENANCE

The P50 glazing unit in GREENVIEW windows is equipped with an easy-clean coating that helps keep the external glass surface clean.

The coating works through a photocatalytic process. UV radiation breaks down organic dirt, which is then washed away by rainfall thanks to the hydrophilic properties of the coating. This solution helps extend the intervals between window cleaning.

GLASS THAT IS EASY TO KEEP CLEAN.





Mgr Mors
street artist

GREENVIEW WINDOWS DESIGNED...



... WITH ERGONOMICS AND COMFORT IN MIND

The newly designed handle features an ergonomic shape and is positioned in the lower part of the sash. This location provides convenient access and comfortable window operation, even when the window is installed at a greater height. Its form reflects contemporary design trends.

EASY-TO-REACH, ERGONOMIC HANDLE.

... WITH STYLE IN MIND

GREENVIEW roof windows stand out with a new shape of the external aluminium cladding. The redesigned geometry gives the windows a modern, minimalist appearance. The cladding design was developed in cooperation with the Kraków University of Technology.

THOUGHTFULLY DESIGNED AND REFINED STYLING.

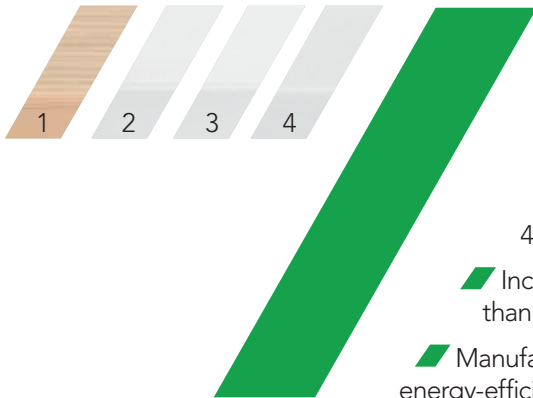
... FOR AESTHETICS AND MATCHING ROOF DESIGNS

The anthracite cladding colour in the standard RAL 7016 finish blends harmoniously with popular contemporary roofing materials. GREENVIEW windows are also available, at no extra charge and with extended lead times, in chocolate brown (RAL 7022) or black (RAL 9005).

CLADDING COLOURS MATCHED TO POPULAR ROOFING MATERIALS.



TRIPLE-GLAZED WINDOWS



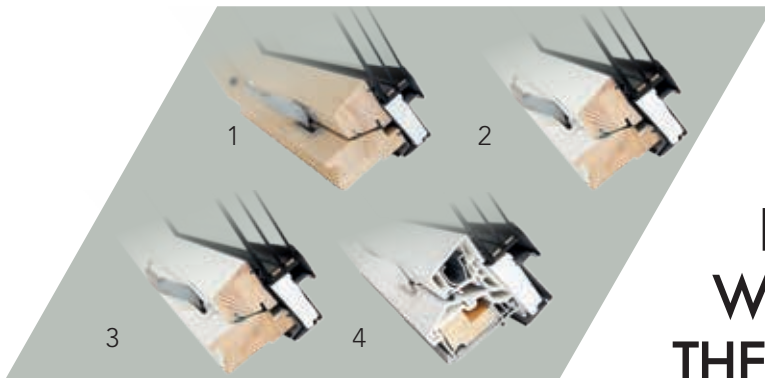
WINDOW DESIGN

Windows come in the following versions:

- 1 - Wooden in natural colour (coated with clear water-based varnish).
- 2 - Wooden in white (coated with water-based varnish).
- 3 - Wooden in white colour (coated with polyurethane varnish).
- 4 - PVC (aluminium clad-plastic) in white colour.

Increased operational safety and burglary resistance thanks to the topSafe system.

Manufactured using the thermoPro technology which may support energy-efficient performance and durability.



P50 GLAZING UNIT WITH ENHANCED THERMAL PERFORMANCE

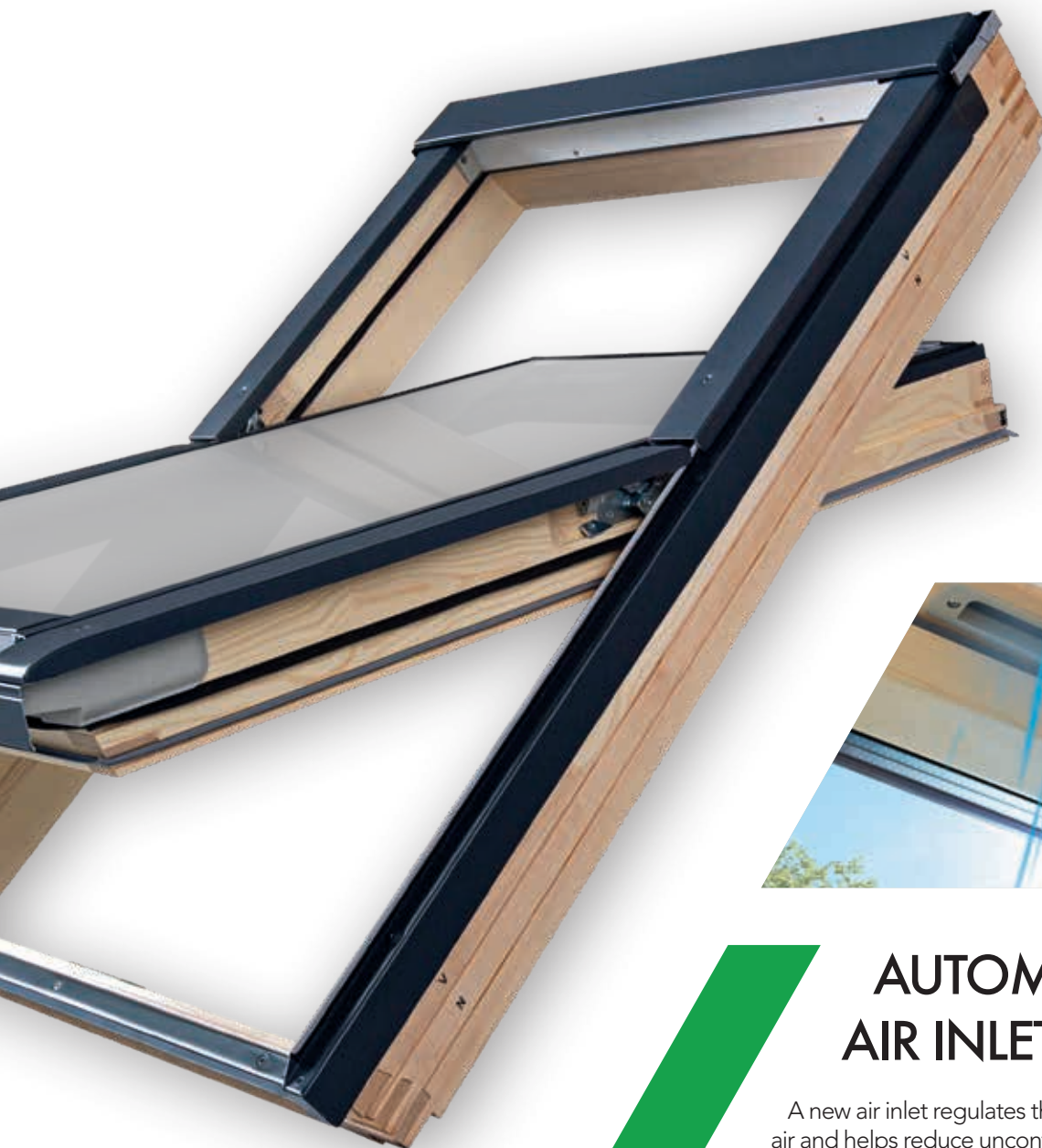


- Glazing thickness is 44 mm.
- $U_g = 0.55 \text{ W/m}^2\text{K}$.
- Triple-glazed unit structure: 4H-15Ar-4-15Ar-33.2.
- Filled with argon.
- 2 low-emission coatings.
- Easy maintenance layer - easier to keep windows clean.
- Toughened external glass.
- Laminated internal glass, acoustic.
- Warm TGI spacer.
- Soundproof film - better acoustics.
- Anti-burglary internal glass (P2A class) - safe.

U41 GLAZING UNIT WITH ENHANCED THERMAL PERFORMANCE

- Glazing thickness is 44 mm.
- $U_g = 0.6 \text{ W/m}^2\text{K}$.
- Triple-glazed unit structure: 4H-16Ar-4T-16Ar-4T.
- Filled with argon.
- 2 low emission coatings.
-
- Toughened external glass.
-
- Warm TGI spacer.
-
-
-





AUTOMATIC AIR INLET

A new air inlet regulates the supply of outside air and helps reduce uncontrolled heat loss. Its performance depends on pressure conditions and the effectiveness of the ventilation system.

- New rounded shape of the air inlet.
- Made of plastic – “warmer”, lower risk of condensation.
- Designed to support higher thermal efficiency with triple-glazed units.

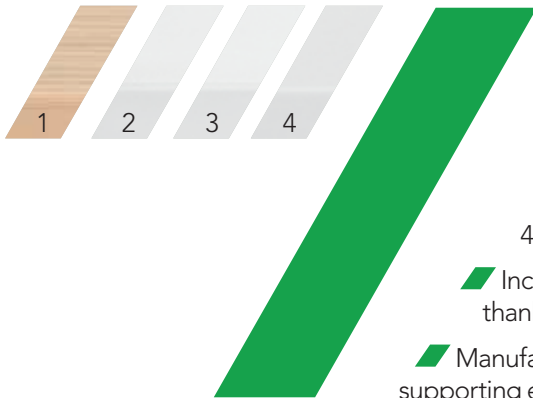
MODERN DESIGN

- Ergonomic and state-of-the-art handle.
- Modern cladding shape.
- Modern colour
- anthracite RAL 7016 as standard.

RAL 7016



DOUBLE-GLAZED WINDOWS



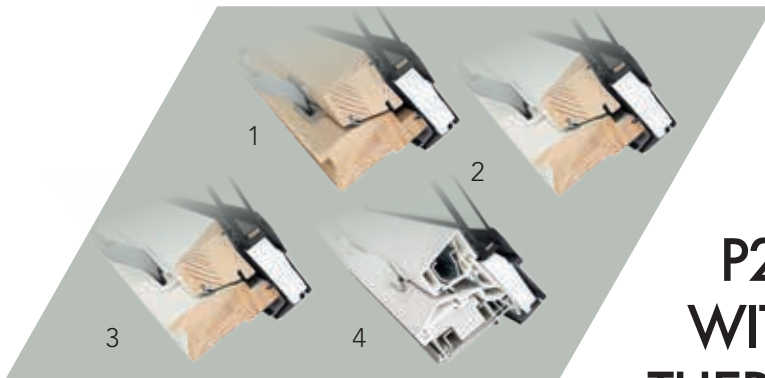
WINDOW DESIGN

Windows come in the following versions:

- 1 - Wooden in natural colour (coated with clear water-based varnish).
- 2 - Wooden in white (coated with water-based varnish).
- 3 - Wooden in white colour (coated with polyurethane varnish).
- 4 - PVC (aluminium clad-plastic) in white colour.

Increased operational safety and burglary resistance thanks to the topSafe system.

Manufactured using the thermoPro technology may result in supporting energy efficient performance and durability.



P20 GLAZING UNIT WITH ENHANCED THERMAL PERFORMANCE

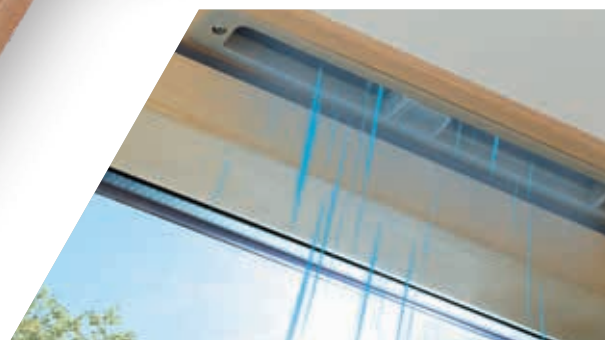


- Glazing thickness is 25 mm.
- $U_g = 1.0 \text{ W/m}^2\text{K}$.
- Double-glazed unit structure: 4H-15Ar-33.2T..
- Filled with argon.
- 2 low-emission coatings.
-
- Toughened external glass.
- Laminated internal glass.
- Warm TGI spacer.
-
- Anti-burglary internal glass (P2A class) - safe.

U30 GLAZING UNIT WITH ENHANCED THERMAL PERFORMANCE

- Glazing thickness is 25 mm.
- $U_g = 1.0 \text{ W/m}^2\text{K}$.
- Double-glazed unit structure: 4H-17Ar-4T
- Filled with argon.
- 1 low emission coatings.
-
- Toughened external glass.
-
- Warm TGI spacer.
-
-
-





AUTOMATIC AIR INLET

A new air inlet regulates the supply of outside air and helps reduce uncontrolled heat loss. Its performance depends on pressure conditions and the effectiveness of the ventilation system.

- New rounded shape of the air inlet.
- Made of plastic – "warmer", lower risk of condensation.

MODERN DESIGN

- Ergonomic and state-of-the-art handle.
- Modern cladding shape.
- Modern colour
- anthracite RAL 7016 as standard.

RAL 7016





GREENVIEW WINDOW CONSTRUCTION

WINDOW PROFILE TYPES

Windows should be selected according to the humidity level in the room.



WOOD with clear acrylic finish

The basic material used in production is high-quality laminated pine wood. The wood is vacuum-impregnated and coated with acrylic lacquer. Wooden windows are widely used in most attic rooms.

FAKRO sources wood from forests managed according to planned and sustainable forestry practices.



WOOD with white polyurethane finish

Designed for rooms with periodically elevated humidity levels (kitchens, bathrooms). These roof windows are coated with a durable, triple-layer polyurethane lacquer that forms a smooth white finish (similar to RAL 9003). Visible wooden elements, such as the sash, are covered with white polyurethane material, visually matching the entire window. The handle is silver-coloured.



PVC

PVC roof windows are intended for rooms with increased humidity, including bathrooms. Multi-chamber PVC profiles in white (similar to RAL 9003) are reinforced with steel sections. PVC is moisture-resistant, durable, and corrosion-resistant. PVC profiles achieve the highest profile class (Class A) in accordance with EN 12608. The windows are available with white, pine-effect, or anthracite finishes. Selected windows are manufactured using the innovative V-PERFECT profile welding technology.





INNOVATIVE SOLUTIONS

Innovation has been a hallmark of FAKRO products for many years. The philosophy of continuous thinking and improvement means that new solutions expand functionality and enhance the quality of roof windows. They help create comfortable living environments for people around the world.



topSafe

TOPSAFE SYSTEM

Provides enhanced user safety and increased resistance against burglary attempts.

The topSafe system includes:

- an innovative system for mounting specially profiled hinges,
- a metal element reinforcing the locking mechanism.



AIR INLET

Controlled Supply of Outside Air

Due to the high airtightness of modern window joinery used in contemporary buildings, issues related to excessive moisture and water vapour condensation indoors may occur. To help reduce this phenomenon, FAKRO windows are equipped with ventilation inlets.



thermoPro

THERMOPRO TECHNOLOGY

Improves the energy efficiency and durability of roof windows.

Enhanced thermal performance

Low-emissivity coatings in glazing units help reduce heat loss, while warm TGI spacers improve the thermal insulation performance of the entire window structure.

Increased wood durability thanks to drainage channels

Water drainage channels in the lower corners of the frame allow condensed moisture to drain away, helping increase the durability of the window profile.

Improved window airtightness while maintaining ventilation

Depending on the model and configuration, GREENVIEW windows achieve Class 3 or Class 4 air permeability according to EN 12207. They help to reduce uncontrolled air infiltration. This is particularly important in buildings with mechanical ventilation systems.

Easier installation and greater installation comfort

New mounting brackets and Torx screws facilitate roof window installation and provide greater adjustment possibilities.



WARRANTY



∞ LIFETIME WARRANTY*
ON TOUGHENED GLASS AGAINST
HAIL DAMAGE

In the event of **hail** damage causing breakage of the toughened glass, the glazing unit will be **replaced free of charge**.

FAKRO products are covered by long-term warranties:



Detailed warranty terms, including the scope of coverage and warranty period, are available on the website applicable to the respective market.



ROOF WINDOWS

Roof windows may look similar, but they differ in many respects. Not only thermal insulation and acoustic performance determine the choice of a roof window. User comfort is also strongly influenced by the window structure, burglary protection solutions, thermal insulation features, the type of glazing unit used, and additional accessories. These elements together determine the comfort of using roof windows in attic spaces.

	FTP-X P50	PTP-X P50	FPP-X MAX P50
WINDOW TYPE	Wooden window, natural finish	White PVC window	Wooden window, natural finish
OPENING METHOD	Centre-pivot opening with convenient bottom handle and micro-opening function	Centre-pivot opening with convenient bottom handle and micro-opening function	Top-hung and centre-pivot opening with convenient bottom handle and micro-opening function. The opening mode is selected using the preSelect switch.
ENERGY EFFICIENCY	U_w=0,9 W/m²K with EHV-AT Thermo flashing U_w =1,0 W/m²K with standard flashing	U_w=0,9 W/m²K with EHV-AT Thermo flashing U_w =1,0 W/m²K with standard flashing	U_w=0,95 W/m²K with EHV-AT Thermo flashing U_w =1,0 W/m²K with standard flashing
ACOUSTIC INSULATION	Very good sound insulation, R_w=40dB	Very good sound insulation, R_w=41dB	Very good sound insulation, R_w=40dB
PROFILE MATERIAL	Laminated knot-free pine wood, double-coated with clear water-based varnish	Multi-chamber PVC profiles	Laminated knot-free pine wood, double-coated with clear water-based varnish
AIR INLET	-	-	-
SECURITY	topSafe system for increased burglary resistance	topSafe system for increased burglary resistance	topSafe system for increased burglary resistance
DURABILITY	thermoPro technology for improved durability and enhanced window performance	thermoPro technology for improved durability and enhanced window performance	thermoPro technology for improved durability and enhanced window performance
SEALING SYSTEM	Quadruple sealing system	Quadruple sealing system	Quadruple sealing system
EASE OF USE	Sash guiding system	Sash guiding system	Sash guiding system
GLAZING PACKAGE / SAFETY	Lifetime warranty against hail damage on toughened glass. Internal P2A laminated safety pane.	Lifetime warranty against hail damage on toughened glass. Internal P2A laminated safety pane.	Lifetime warranty against hail damage on toughened glass. Internal P2A laminated safety pane.
EXTERNAL GLASS CLEANLINESS	Easy maintenance layer	Easy maintenance layer	Easy maintenance layer
EXTERNAL CLADDING COLOURS	Anthracite RAL 7016 (standard), Chocolate Brown RAL 7022, Black RAL 9005	Anthracite RAL 7016 (standard), Chocolate Brown RAL 7022, Black RAL 9005	Anthracite RAL 7016 (standard), Chocolate Brown RAL 7022, Black RAL 9005

	FTP-V U41	PTP-V U41	FPP-V MAX U41
WINDOW TYPE	Wooden window, natural finish, with air inlet	White PVC window, with air inlet	Wooden window, natural finish, with air inlet
OPENING METHOD	Centre-pivot opening with convenient bottom handle and micro-opening function	Centre-pivot opening with convenient bottom handle and micro-opening function	Top-hung and centre-pivot opening with convenient bottom handle and micro-opening function. The opening mode is selected using the preSelect switch.
ENERGY EFFICIENCY	U _w =1,0 W/m²K with EHV-AT Thermo flashing U _w =1,1 W/m²K with standard flashing	U _w =1,0 W/m²K with EHV-AT Thermo flashing U _w =1,1 W/m²K with standard flashing	U _w =1,0 W/m²K with EHV-AT Thermo flashing U _w =1,1 W/m²K with standard flashing
ACOUSTIC INSULATION	Good sound insulation, R _w =36dB	Good sound insulation, R _w =37dB	Good sound insulation, R _w =35dB
PROFILE MATERIAL	Laminated knot-free pine wood, double-coated with clear water-based varnish	Multi-chamber PVC profiles	Laminated knot-free pine wood, double-coated with clear water-based varnish
AIR INLET	Air inlet for optimal supply of fresh air	Air inlet for optimal supply of fresh air	Air inlet for optimal supply of fresh air
SECURITY	topSafe system for increased burglary resistance	topSafe system for increased burglary resistance	topSafe system for increased burglary resistance
DURABILITY	thermoPro technology for improved durability and enhanced window performance	thermoPro technology for improved durability and enhanced window performance	thermoPro technology for improved durability and enhanced window performance
SEALING SYSTEM	Quadruple sealing system	Quadruple sealing system	Quadruple sealing system
EASE OF USE	Sash guiding system	Sash guiding system	Sash guiding system
GLAZING PACKAGE / SAFETY	Lifetime warranty against hail damage on toughened glass.	Lifetime warranty against hail damage on toughened glass.	Lifetime warranty against hail damage on toughened glass.
EXTERNAL GLASS CLEANLINESS	-	-	-
EXTERNAL CLADDING COLOURS	Anthracite RAL 7016 (standard), Chocolate Brown RAL 7022, Black RAL 9005	Anthracite RAL 7016 (standard), Chocolate Brown RAL 7022, Black RAL 9005	Anthracite RAL 7016 (standard), Chocolate Brown RAL 7022, Black RAL 9005

TOP HUNG AND PIVOT WINDOWS

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Advanced design to ensure two opening methods:
 - top hung up to 45° to result in better use of an additional attic space.
 - pivot allowing the sash to be rotated through 180°.
- Opening method can be changed using easily accessible switch.
- Easy window operation by means of the handle situated in the base of the sash and featuring two-step micro-opening.
- Carefully selected pine wood, laminated, vacuum impregnated.
- Windows manufactured using thermoPro technology to support improved energy efficiency, enhanced durability, high airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 15° - 55°, window in a special version installed in pitches from 15° - 85°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION	FPP-X MAX P50 APMX	FPP-V MAX U41 APMX
U_w U_w with Thermo flashing R_w	1.0 W/m²K 0.95 W/m²K 40 dB	1.1 W/m²K 1.0 W/m²K 35 dB
MATERIAL	Pinewood	Pinewood
WOOD COLOUR	NATURAL Coated twice with clear water-based varnish.	NATURAL Coated twice with clear water-based varnish.
AIR INLET	Also available in white.	Also available in white.
GLAZING UNIT	No air inlet. With air inlet upon request. Triple-glazed unit Toughened external glass Warm TGI spacer Easy maintenance layer Safe internal glass Soundproof glass.	With air inlet. With no air inlet upon request. Triple-glazed unit Toughened external glass Warm TGI spacer — — —
INTENDED USE	Attic rooms, particularly bedrooms, children's rooms, living rooms.	Attic rooms, particularly bedrooms, children's rooms, living rooms.

Scan the QR code:
to find your FAKRO distributor



TOP-HUNG AND PIVOT WINDOWS													
Dimensions [cm] (frame external dimensions)	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
glazing area [m ²]	0.29	0.38	0.47	0.58	0.47	0.59	0.73	0.85	0.75	0.92	0.95	1.16	0.92
number of handles	02	03	04	14	05	06	07	13	08	09	10	11	12
size symbol	02	03	04	14	05	06	07	13	08	09	10	11	12

TOP HUNG AND PIVOT WINDOWS

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Advanced design to ensure two opening methods:
 - top hung up to 45° to result in better use of an additional attic space.
 - pivot allowing the sash to be rotated through 180°.
- Opening method can be changed using easily accessible switch.
- Easy window operation by means of the handle situated in the base of the sash and featuring two-step micro-opening.
- Carefully selected pine wood, laminated, vacuum impregnated.
- Windows manufactured using thermoPro technology to support improved energy efficiency, enhanced durability, high airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 15° - 55°, window in a special version installed in pitches from 15° - 85°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION	FPP-V MAX P20 APMX	FPP-V MAX U30 APMX
U_w U_w with Thermo flashing R_w	1.3 W/m ² K - 36 dB	1.3 W/m ² K 1.2 W/m ² K 33 dB
		
MATERIAL	Pinewood	Pinewood
WOOD COLOUR	NATURAL Coated twice with clear water-based varnish. Also available in white.	NATURAL Coated twice with clear water-based varnish. Also available in white.
AIR INLET	With air inlet. With no air inlet upon request.	With air inlet. With no air inlet upon request.
GLAZING UNIT	Double-glazed unit Toughened external glass Warm TGI spacer Safe internal glass	Double-glazed unit Toughened external glass Warm TGI spacer -
INTENDED USE	Attic rooms, particularly bedrooms, children's rooms, living rooms.	Attic rooms, particularly bedrooms, children's rooms, living rooms.

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to find your FAKRO distributor



TOP-HUNG AND PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
glazing area [m ²]	0.29	0.38	0.47	0.58	0.47	0.59	0.73	0.85	0.75	0.92	0.95	1.16	0.92
number of handles	02	03	04	14	05	06	07	13	08	09	10	11	12
size symbol	02	03	04	14	05	06	07	13	08	09	10	11	12

TOP HUNG AND PIVOT WINDOWS

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Advanced design to ensure two opening methods:
 - top hung up to 45° to result in better use of an additional attic space.
 - pivot allowing the sash to be rotated through 180°.
- Opening method can be changed using easily accessible switch.
- Easy window operation by means of the handle situated in the base of the sash and featuring two-step micro-opening.
- PVC windows are manufactured using profiles that incorporate components made from recycled materials. At end of life, separated PVC profile components may be accepted by suitable recycling facilities, subject to local collection options and waste management regulations.
- Windows manufactured using thermoPro technology support higher energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 15° - 55°, window in a special version installed in pitches from 15° - 85°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

PPP-X MAX P50 ABMX

PPP-V MAX U41 ABMX

U_w with Thermo flashing
 U_w

1.0 W/m²K
0.9 W/m²K
40 dB

1.1 W/m²K
1.0 W/m²K
37 dB



MATERIAL

The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.

The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.

PROFILE COLOUR

WHITE

WHITE

AIR INLET

No air inlet.
With air inlet upon request

With air inlet.
With no air inlet upon request..

GLAZING UNIT

Triple-glazed unit
Toughened external glass
Warm TGI spacer
Easy maintenance layer
Safe internal glass
Soundproof glass

Triple-glazed unit
Toughened external glass
Warm TGI spacer
—
—
—

INTENDED USE

All attic rooms, particularly kitchens, living rooms.

All attic rooms, particularly kitchens, living rooms.

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TOP-HUNG AND PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
glazing area [m ²]	0.29	0.38	0.47	0.58	0.47	0.59	0.73	0.85	0.75	0.92	0.95	1.16	0.92
number of handles	02	03	04	14	05	06	07	13	08	09	10	11	12
size symbol	02	03	04	14	05	06	07	13	08	09	10	11	12

TOP HUNG AND PIVOT WINDOWS

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Advanced design to ensure two opening methods:
 - top hung up to 45° to result in better use of an additional attic space.
 - pivot allowing the sash to be rotated through 180°.
- Opening method can be changed using easily accessible switch.
- Easy window operation by means of the handle situated in the base of the sash and featuring two-step micro-opening.
- PVC windows are manufactured using profiles that incorporate components made from recycled materials. At end of life, separated PVC profile components may be accepted by suitable recycling facilities, subject to local collection options and waste management regulations.
- Windows manufactured using thermoPro technology support higher energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 15° - 55°, window in a special version installed in pitches from 15° - 85°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

PPP-V MAX P20 ABMX

PPP-V MAX U30 ABMX

U_w with Thermo flashing
 R_w

-
-
35 dB

-
-
33 dB



MATERIAL

The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.

The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.

PROFILE COLOUR

WHITE

WHITE

AIR INLET

With air inlet.
With no air inlet upon request..

With air inlet.
With no air inlet upon request.

GLAZING UNIT

Double-glazed unit
Toughened external glass
Warm TGI spacer
Safe internal glass

Double-glazed unit
Toughened external glass
Warm TGI spacer
-

INTENDED USE

All attic rooms, particularly kitchens, living rooms.

All attic rooms, particularly kitchens, living rooms.

Scan the QR code:
to find your FAKRO distributor



TOP-HUNG AND PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
glazing area [m²]	0.29	0.38	0.47	0.58	0.47	0.59	0.73	0.85	0.75	0.92	0.95	1.16	0.92
number of handles	02	03	04	14	05	06	07	13	08	09	10	11	12
size symbol	02	03	04	14	05	06	07	13	08	09	10	11	12

PIVOT WINDOWS

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Popular window design with the hinge positioned in the middle of the window height.
- Easy window operation by means of the handle situated in the base of the sash and featuring two-step micro-opening.
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.
- Windows manufactured using thermoPro technology support improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 15-90°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

FTP-X P50 APMX

FTP-V U41 APMX

U_w
U_w with Thermo flashing
R_w

1.0 W/m²K
0.9 W/m²K
40 dB

1.1 W/m²K
1.0 W/m²K
36 dB



MATERIAL

Pinewood

Pinewood

WOOD COLOUR

NATURAL
Coated twice with clear
water-based varnish.

NATURAL
Coated twice with clear
water-based varnish.

AIR INLET

No air inlet.
With air inlet upon request.

With air inlet.
With no air inlet upon request.

GLAZING
UNIT

Triple-glazed unit
Toughened external glass
Warm TGI spacer
Easy maintenance layer
Safe internal glass
Soundproof glass.

Triple-glazed unit
Toughened external glass
Warm TGI spacer
—
—
—

INTENDED USE

Attic rooms, particularly bed-
rooms, children's rooms, living
rooms.

Attic rooms, particularly bed-
rooms, children's rooms, living
rooms.

Scan the QR code:
to find your FAKRO
distributor



PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	55x78	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
glazing area [m ²]	0.22	0.29	0.38	0.47	0.58	0.47	0.59	0.73	0.85	0.75	0.92	0.95	1.16	0.92
number of handles	01	02	03	04	14	05	06	07	13	08	09	10	11	12
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PIVOT WINDOWS

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EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 15-90°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

FTP-V P20 APMX

FTP-V U30 APMX

U_w
 U_w with Thermo flashing
 R_w

1.3 W/m²K
1.2 W/m²K
37 dB

1.3 W/m²K
1.2 W/m²K
35 dB



MATERIAL

Pinewood

Pinewood

WOOD COLOUR

NATURAL
Coated twice with clear
water-based varnish.
Also available in white.

NATURAL
Coated twice with clear
water-based varnish.
Also available in white.

AIR INLET

With air inlet.
With no air inlet upon request.

With air inlet.
With no air inlet upon request.

GLAZING
UNIT

Double-glazed unit
Toughened external glass
Warm TGI spacer
Safe internal glass

Double-glazed unit
Toughened external glass
Warm TGI spacer
-

INTENDED USE

Attic rooms, particularly bed-
rooms, children's rooms, living
rooms.

Attic rooms, particularly bed-
rooms, children's rooms, living
rooms.

Scan the QR code:
to find your FAKRO
distributor



PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	55x78	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
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size symbol	01	02	03	04	14	05	06	07	13	08	09	10	11	12

PIVOT WINDOWS

RESISTANT TO MOISTURE

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

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- Easy window operation by means of the handle situated in the base of the sash and featuring two-step micro-opening.
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.
- Windows manufactured using thermoPro technology, providing improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

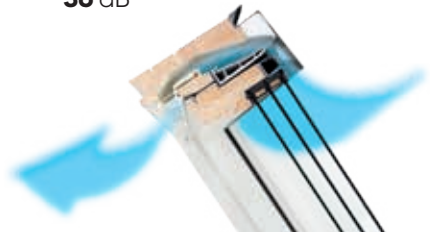
- 15-90°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION	FTU-X P50 AUMX	FTU-V U41 AUMX
U_w U_w with Thermo flashing R_w	1.0 W/m ² K 0.9 W/m ² K 40 dB	1.1 W/m ² K 1.0 W/m ² K 36 dB
		
MATERIAL	Pinewood	Pinewood
WOOD COLOUR	WHITE Coated with three layers of polyurethane varnish.	WHITE Coated with three layers of polyurethane varnish.
AIR INLET	No air inlet. With air inlet upon request.	With air inlet. With no air inlet upon request.
GLAZING UNIT	Triple-glazed unit Toughened external glass Warm TGI spacer Easy maintenance layer Safe internal glass Soundproof glass	Triple-glazed unit Toughened external glass Warm TGI spacer — — —
INTENDED USE	All attic rooms, particularly kitchens, living rooms.	All attic rooms, particularly kitchens, living rooms.

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distributor



PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	55x78	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
glazing area [m ²]	0.22	0.29	0.38	0.47	0.58	0.47	0.59	0.73	0.85	0.75	0.92	0.95	1.16	0.92
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PIVOT WINDOWS

RESISTANT TO MOISTURE

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Popular window design with the hinge positioned in the middle of the window height.
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EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 15-90°.

THREE CLADDING COLOURS TO CHOOSE FROM

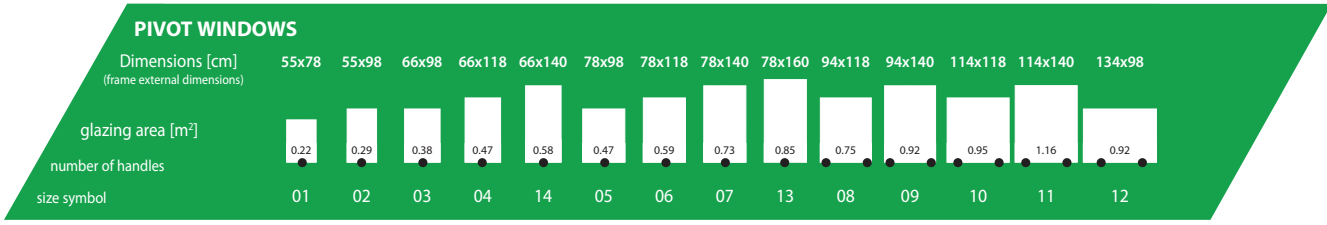
- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION	FTU-V P20 AUMX	FTU-V U30 AUMX
U_w U_w with Thermo flashing R_w	1.3 W/m ² K 1.2 W/m ² K 37 dB	1.3 W/m ² K 1.2 W/m ² K 35 dB
		
MATERIAL	Pinewood	Pinewood
WOOD COLOUR	WHITE Coated with three layers of polyurethane varnish.	WHITE Coated with three layers of polyurethane varnish.
AIR INLET	With air inlet. With no air inlet upon request.	With air inlet. With no air inlet upon request..
GLAZING UNIT	Double-glazed unit Toughened external glass Warm TGI spacer Safe internal glass	Double-glazed unit Toughened external glass Warm TGI spacer -
INTENDED USE	All attic rooms, particularly kitchens, living rooms.	All attic rooms, particularly kitchens, living rooms.


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 distributor



PIVOT WINDOWS

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Popular window design with the hinge positioned in the middle of the window height.
- Easy window operation by means of the handle situated in the base of the sash and featuring two-step micro-opening.
- PVC windows are manufactured using profiles that incorporate components made from recycled materials. At end of life, separated PVC profile components may be accepted by suitable recycling facilities, subject to local collection options and waste management regulations.
- Windows manufactured using thermoPro technology, offering improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 15-90°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION	PTP-X P50 ABMX	PTP-V U41 ABMX
U_w U_w with Thermo flashing R_w	1.0 W/m²K 0.9 W/m²K 41 dB	1.1 W/m²K 1.0 W/m²K 37 dB
MATERIAL	 The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.	 The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.
PROFILE COLOUR	WHITE	WHITE
AIR INLET	No air inlet. With air inlet upon request	With air inlet. With no air inlet upon request..
GLAZING UNIT	Triple-glazed unit Toughened external glass Warm TGI spacer Easy maintenance layer Safe internal glass Soundproof glass	Triple-glazed unit Toughened external glass Warm TGI spacer — — —
INTENDED USE	All attic rooms, particularly kitchens, living rooms.	All attic rooms, particularly kitchens, living rooms.

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PIVOT WINDOWS														
Dimensions [cm] (frame external dimensions)	55x78	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
glazing area [m²]	0.22	0.29	0.38	0.47	0.58	0.47	0.59	0.73	0.85	0.75	0.92	0.95	1.16	0.92
number of handles	01	02	03	04	14	05	06	07	13	08	09	10	11	12
size symbol	01	02	03	04	14	05	06	07	13	08	09	10	11	12

PIVOT WINDOWS

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

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- Windows manufactured using thermoPro technology, offering improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 15-90°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

PTP-V P20 ABMX

PTP-V U30 ABMX

U_w with Thermo flashing
 R_w

1.3 W/m²K
-
38 dB

1.3 W/m²K
1.1 W/m²K
35 dB



MATERIAL

The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.

The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.

PROFILE COLOUR

WHITE

WHITE

AIR INLET

With air inlet.
With no air inlet upon request..

With air inlet.
With no air inlet upon request.

GLAZING UNIT

Double-glazed unit
Toughened external glass
Warm TGI spacer
Safe internal glass

Double-glazed unit
Toughened external glass
Warm TGI spacer
-

INTENDED USE

All attic rooms, particularly kitchens, living rooms.

All attic rooms, particularly kitchens, living rooms.

Scan the QR code
to find your FAKRO
distributor



PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	55x78	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
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size symbol	01	02	03	04	14	05	06	07	13	08	09	10	11	12

PIVOT WINDOWS REMOTELY CONTROLLED

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Popular window design with the hinge positioned in the middle of the window height. Comfortable operation via a remote control or smartphone app.
- Equipped with a rain sensor that automatically activates the window-closing function when rain is detected. Powered by a 230 V mains supply.
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.
- Windows manufactured using thermoPro technology, offering improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- Turning the handle through 90° results in disconnecting the actuator from the sash. The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories. Windows allow for remote control of electrically operated accessories.

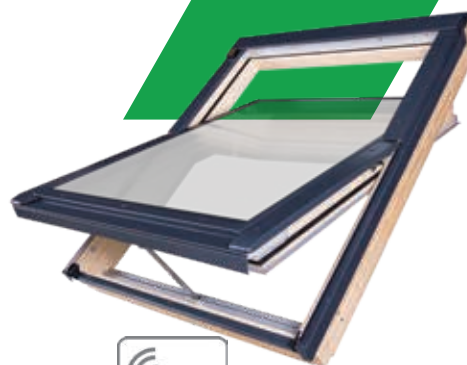
INSTALLATION RANGE

- 15-90°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

FTP-X P50 APZX

FTP-X P50 APWX

U_w
 U_w with Thermo flashing
 R_w

1.0 W/m²K
0.9 W/m²K
40 dB

1.0 W/m²K
0.9 W/m²K
40 dB



MATERIAL

Pinewood

Pinewood

WOOD COLOUR

NATURAL
Coated twice with clear
water-based varnish.

NATURAL
Coated twice with clear
water-based varnish.

AIR INLET

No air inlet.
With air inlet upon request.

No air inlet.
With air inlet upon request.

GLAZING
UNIT

Triple-glazed unit
Toughened external glass
Warm TGI spacer
Easy maintenance layer
Safe internal glass
Soundproof glass

Triple-glazed unit
Toughened external glass
Warm TGI spacer
Easy maintenance layer
Safe internal glass
Soundproof glass

TECHNOLOGY

**Wireless Z-Wave radio
communication protocol.**

**The WiFi window uses the home
wireless network via a router.**

CONTROL

Remote control sold separately. The
Z-Wave window is compatible with
the HC3L gateway, enabling inte-
gration with a smart home system
and control via a mobile app or voice
commands.

Via smartphone using the FAKRO
Smart app.

INTENDED USE

Attic rooms, particularly bedrooms,
children's rooms, living rooms.

Attic rooms, particularly bedrooms,
children's rooms, living rooms.

Scan the QR code:
to find your FAKRO
distributor



REMOTELY CONTROLLED PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	55x78	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
glazing area [m ²]	0.22	0.29	0.38	0.47	0.58	0.47	0.59	0.73	0.85	0.75	0.92	0.95	1.16	0.92
size symbol	01	02	03	04	14	05	06	07	13	08	09	10	11	12

PIVOT WINDOWS REMOTELY CONTROLLED

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Popular window design with the hinge positioned in the middle of the window height. Comfortable operation via a remote control or smartphone app.
- Equipped with a rain sensor that automatically activates the window-closing function when rain is detected. Powered by a 230 V mains supply.
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.
- Windows manufactured using thermoPro technology, offering improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- Turning the handle through 90° results in disconnecting the actuator from the sash. The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories. Windows allow for remote control of electrically operated accessories.

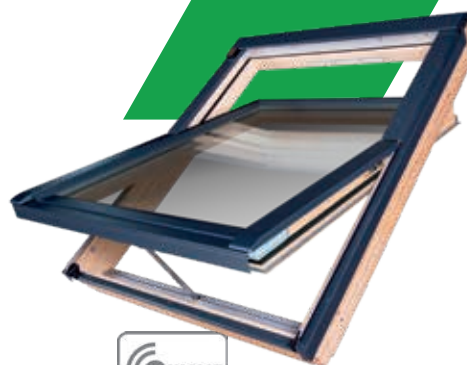
INSTALLATION RANGE

- 15-90°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

FTP-V P20 APZX

FTP-V U30 APWX

U_w
 U_w with Thermo flashing
 R_w

1.3 W/m²K
1.2 W/m²K
37 dB

1.3 W/m²K
1.2 W/m²K
35 dB



MATERIAL Pinewood

Pinewood

WOOD COLOUR

NATURAL
Coated twice with clear
water-based varnish.

NATURAL
Coated twice with clear
water-based varnish.

AIR INLET

With air inlet.
With no air inlet upon request.

With air inlet.
With no air inlet upon request.

GLAZING
UNIT

Double-glazed unit
Toughened external glass
Warm TGI spacer
Safe internal glass

Double-glazed unit
Toughened external glass
Warm TGI spacer
-

TECHNOLOGY

**Wireless Z-Wave radio
communication protocol.**

**The WiFi window uses the home
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Z-Wave window is compatible with
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gration with a smart home system
and control via a mobile app or voice
commands.

Via smartphone using the FAKRO
Smart app.

INTENDED USE

Attic rooms, particularly bedrooms,
children's rooms, living rooms.

Attic rooms, particularly bedrooms,
children's rooms, living rooms.

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REMOTELY CONTROLLED PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	55x78	55x98	66x98	66x118	66x140	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98
glazing area [m ²]	0.22	0.29	0.38	0.47	0.58	0.47	0.59	0.73	0.85	0.75	0.92	0.95	1.16	0.92
size symbol	01	02	03	04	14	05	06	07	13	08	09	10	11	12

WINDOWS WITH RAISED AXIS OF ROTATION

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Richly equipped pivot window with axis of rotation situated above the centre of the window, so even a tall person can easily walk up to the window edge.
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.
- Easy window operation by means of the handle situated in the base of the sash and featuring two-step micro-opening.
- Windows manufactured using thermoPro technology, offering improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 160° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories. Windows allow for remote control of electrically operated accessories.

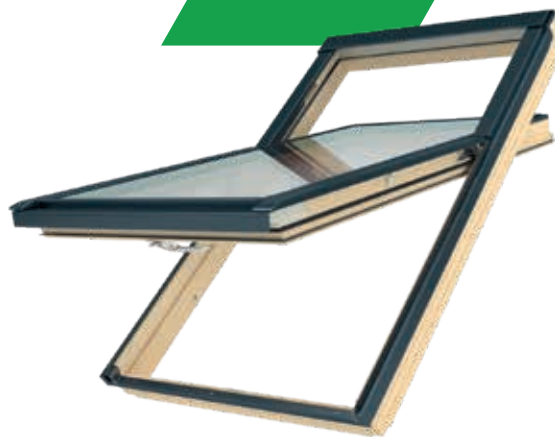
INSTALLATION RANGE

- 20-65°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

FYP-X P50 APMX

FYP-V U41 APMX

U_w
 R_w

1.0 W/m²K
40 dB

1.1 W/m²K
35 dB



MATERIAL

Pinewood

Pinewood

WOOD COLOUR

NATURAL
Coated twice with clear
water-based varnish.
Also available in white.

NATURAL
Coated twice with clear
water-based varnish.
Also available in white.

AIR INLET

With air inlet.
With no air inlet upon request.

With air inlet.
With no air inlet upon request.

GLAZING
UNIT

Triple-glazed unit
Toughened external glass
Warm TGI spacer
Easy maintenance layer
Safe internal glass
Soundproof glass

Triple-glazed unit
Toughened external glass
Warm TGI spacer
—
—
—

INTENDED USE

Attic rooms, particularly
bedrooms, children's rooms,
living rooms.

Attic rooms, particularly
bedrooms, children's rooms,
living rooms.

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PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	78x140	78x160	78x180	78x206	94x140	94x160	94x180	94x206
glazing area [m²]	0.73	0.85	0.96	1.12	0.92	1.07	1.22	1.42
number of handles	07	13	40	CB	09	80	41	DB
size symbol	07	13	40	CB	09	80	41	DB

WINDOWS WITH RAISED AXIS OF ROTATION

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Richly equipped pivot window with axis of rotation situated above the centre of the window, so even a tall person can easily walk up to the window edge.
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.
- Easy window operation by means of the handle situated in the base of the sash and featuring two-step micro-opening.
- Windows manufactured using thermoPro technology, offering improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 160° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories. Windows allow for remote control of electrically operated accessories.

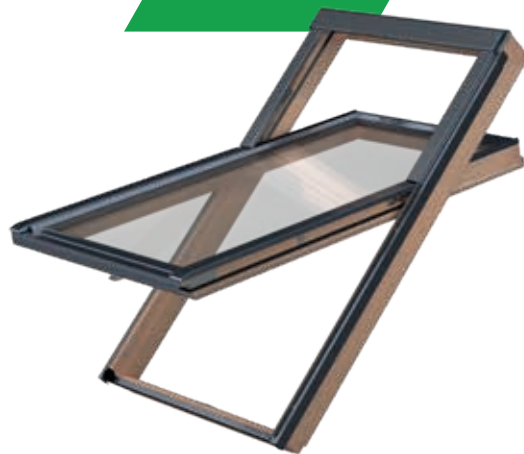
INSTALLATION RANGE

- 20-65°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

FYP-V P20 APMX

FYP-V U30 APMX

U_w with Thermo flashing
R_w

-
-
35 dB

-
-
33 dB



MATERIAL

Pinewood

Pinewood

WOOD COLOUR

NATURAL
Coated twice with clear
water-based varnish.
Also available in white.

NATURAL
Coated twice with clear
water-based varnish.
Also available in white.

AIR INLET

With air inlet.
With no air inlet upon request.

With air inlet.
With no air inlet upon request.

GLAZING
UNIT

Double-glazed unit
Toughened external glass
Warm TGI spacer
Safe internal glass

Double-glazed unit
Toughened external glass
Warm TGI spacer
-

INTENDED USE

Attic rooms, particularly
bedrooms, children's rooms,
living rooms.

Attic rooms, particularly
bedrooms, children's rooms,
living rooms.

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PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	78x140	78x160	78x180	78x206	94x140	94x160	94x180	94x206
glazing area [m ²]	0.73	0.85	0.96	1.12	0.92	1.07	1.22	1.42
number of handles	07	13	40	CB	09	80	41	DB
size symbol	07	13	40	CB	09	80	41	DB

WINDOWS WITH RAISED AXIS OF ROTATION WITH LOWER TRANSOM

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- Double sash window. The upper sash is opened like a pivot window but its axis of rotation is situated above the centre of the window, so even a tall person can easily walk up to the window edge. The lower sash is unopening and an additional source of daylight. Can be combined with balcony windows.
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.
- Easy window operation by means of the handle situated in the base of the sash and featuring two-step micro-opening.
- Windows manufactured using thermoPro technology, offering improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 160° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories. Windows allow for remote control of electrically operated accessories.

INSTALLATION RANGE

- 25-65°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

FDP-V P50 APMX

U_w
 U_w with Thermo flashing
 R_w

1.1 W/m²K
1.0 W/m²K
37 dB



MATERIAL

Pinewood

WOOD COLOUR

NATURAL
 Coated twice with clear
 water-based varnish.
 Also available in white.

AIR INLET

With air inlet.
 With no air inlet upon request.

GLAZING
 UNIT

Triple-glazed unit
 Toughened external glass
 Warm TGI spacer
 Easy maintenance layer
 Safe internal glass
 Soundproof glass

INTENDED USE

Attic rooms, particularly living rooms,
 bedrooms, studios.

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 to find your FAKRO
 distributor



PIVOT WINDOWS

Dimensions [cm] (frame external dimensions)	78x186	78x206	78x235	78x255	94x186	94x206	94x235	94x255	114x235	114x255
glazing area [m ²]	0.73	0.85	0.85	0.85	0.92	1.07	1.07	1.07	1.35	1.35
number of handles	0.18	0.18	0.35	0.47	0.23	0.23	0.45	0.60	0.57	0.76
size symbol	CA	CB	CC	CD	DA	DB	DC	DD	EC	ED

BALCONY WINDOWS

DESIGN OPTIMIZED FOR THERMAL PERFORMANCE

- An innovative, large roof window whose sashes when opened create a balcony. The upper top hung sash opens upwards, while the lower sash can be tilted forwards, allowing easy access to the balcony recess.
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.
- Windows manufactured using thermoPro technology, offering improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased operational safety and burglary resistance thanks to patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 30-55°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

FGP-V P50 APMX

U_w with Thermo flashing
 R_w

1.1 W/m²K
37 dB



MATERIAL

Pinewood

WOOD COLOUR

NATURAL

Coated twice with clear water-based varnish.
Also available in white.

AIR INLET

With air inlet.
With no air inlet upon request.

GLAZING
UNIT

Triple-glazed unit

Toughened external glass
Warm TGI spacer
Easy maintenance layer
Safe internal glass
Soundproof glass

INTENDED USE

Attic rooms, particularly living rooms, bedrooms, studios.

LOGISTICS

Delivered complete with a handrail, which is cut to the angle of the roof at the time of installation, and the XDP kit.

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BALCONY WINDOWS

Dimensions [cm]
(frame external dimensions)

78x255

94x255

114x255

glazing area [m²]

0.85

1.07

1.35

number of handles

0.47

0.60

0.76

glazing area [m²]

TERRACE WINDOWS

FUNCTIONAL DESIGN

- Modern large roof windows that create a comfortable access to the terrace or balcony when the sashes are opened. This functional solution provides new possibilities in interior design and using additional, external space on the terrace, which was previously inaccessible.
- The top hung sash in the upper window (FOP) opens upwards, while the lower one opens to the right (FOR), left (FOL) or remains non-opening (FOX).
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.
- Windows manufactured using thermoPro technology, offering improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

EASY TO KEEP CLEAN

- The sash can be rotated through 180° and locked, allowing convenient cleaning of the outer glass.

INCREASED SAFETY

- External toughened glass with FAKRO's lifetime warranty against hail damage, subject to the terms for the relevant market.
- Increased resistance to break-in attempts thanks to the patented topSafe system.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- 35-55°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

FOP-X P50 APMX + FO_ P50 APMX

U_w with Thermo flashing
 R_w

1,1 W/m²K
-



MATERIAL

Pinewood

WOOD COLOUR

NATURAL
Coated twice with clear water-based varnish.
Also available in white.

AIR INLET

No air inlet.
With air inlet upon request.

GLAZING
UNIT

Triple-glazed unit
Toughened external glass
Warm TGI spacer
Easy maintenance layer
Safe internal glass
Soundproof glass

INTENDED USE

Attic rooms, particularly living rooms, bedrooms, studios.

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TOP TERRACE WINDOW FOP-X P50

Dimensions [cm]
(frame external dimensions)

78/140

number of handles



BOTTOM TERRACE WINDOW FOR P50, FOL P50, FOX P50

Dimensions [cm]
(frame external dimensions)

78/118



The right window (FOR) opens to the right (view from the outside), with a handle on the right side (view from the inside).

The left window (FOL) opens to the left (view from the outside), with a handle on the left side (view from the inside).

BRP P50
BLP P50
BVP P50
BXP P50

L-SHAPED COMBINATION WINDOWS

ADDITIONAL ILLUMINATION

DESIGN

- Designed for installation in a vertical wall within the loft space to extend the roof window into the wall, increasing the glazed area, allowing more daylight to enter the room and providing a wider view. Windows can be combined with other roof windows in PVC of any design.
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- Suitable for pitches 15° - 55°.

VERSIONS

- Opened in tilt and turn
 - right: BRP P50 APMX
 - left: BLP P50 APMX
- Tilt opening: BVP P50 APMX.
- Non-opening: BXP P50 APXX.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

B_P P50 APMX
BVP P50 APMX
BXP P50 APXX

U_w

0.8 W/m²K

MATERIAL

Pinewood

WOOD COLOUR

NATURAL

Coated twice with clear water-based varnish.
 Also available in white.

GLAZING
UNIT

Triple-glazed unit

Toughened external glass
 Warm TGI spacer
 Easy maintenance layer
 Safe internal glass
 Soundproof glass

INTENDED USE

All rooms in the attic.

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L-SHAPED COMBINATION WINDOWS BRP P50, BLP P50

Dimensions [cm] (frame external dimensions)	78/60	78/75	78/95	78/115	78/137	94/75	94/95	94/115	114/95
glazing area [m ²]	33	81	82	83	84	85	86	87	90
size symbol	33	81	82	83	84	85	86	87	90

L-SHAPED COMBINATION WINDOWS BVP P50, BXP P50

Dimensions [cm] (frame external dimensions)	78/60	78/75	78/95	78/115	78/137	94/60	94/75	94/95	94/115	114/60	114/75	114/95	114/115
glazing area [m ²]	33	81	82	83	84	34	85	86	87	35	89	90	91
size symbol	33	81	82	83	84	34	85	86	87	35	89	90	91

PLP P50

PRP P50

PVP P50

L-SHAPED COMBINATION WINDOWS

ADDITIONAL ILLUMINATION

DESIGN

- Designed for installation in a vertical wall within the loft space (knee wall) to extend the roof window into the wall, increasing the glazed area and allowing more daylight to enter the room. P knee wall windows can be combined with PVC roof windows.
- PVC windows are manufactured using profiles that incorporate components made from recycled materials. At end of life, separated PVC profile components may be accepted by suitable recycling facilities, subject to local collection options and waste management regulations.

FUNCTIONAL ACCESSORIES

- Wide range of additional accessories.

INSTALLATION RANGE

- Suitable for pitches 15° - 55°.

VERSIONS

- Opened in tilt and turn
 - right PRP P50 ABMX,
 - left PLP P50 ABMX.
- Tilt opening: PVP P50 ABMX.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION

PLP P50 ABMX
PRP P50 ABMX
PVP P50 ABMX

U_w
 R_w

0,9 W/m²K
 -

MATERIAL

The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.

PROFILE COLOUR

WHITE

GLAZING UNIT

Triple-glazed unit
 Toughened external glass
 Warm TGI spacer
 Easy maintenance layer
 Safe internal glass
 Soundproof glass

INTENDED USE

All rooms in the attic..

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L-SHAPED COMBINATION WINDOWS PRP P50, PLP P50

Dimensions [cm] (frame external dimensions)	78/60	78/75	78/95	78/115	78/137	94/75	94/95	94/115	114/95
glazing area [m ²]									
size symbol	33	81	82	83	84	85	86	87	90

L-SHAPED COMBINATION WINDOWS PVP P50

Dimensions [cm] (frame external dimensions)	78/60	78/75	78/95	78/115	78/137	94/60	94/75	94/95	94/115	114/60	114/75	114/95	114/115
glazing area [m ²]													
size symbol	33	81	82	83	84	34	85	86	87	35	89	90	91

TRIPLE-GLAZED WOODEN WINDOWS

FWP P50

FWP U41

DOUBLE-GLAZED WOODEN WINDOWS

FWP U30

SIDE HUNG ESCAPE WINDOWS

SAFE ACCESS TO THE ROOF

DESIGN

- Combination of a roof window and an access roof light to provide quick, safe and easy access to the roof as well as ingress of natural light and roof ventilation.
- Universal design as the opening side can be changed before installation. Available with a factory pre-fixed right-opening side. It is possible to order FWP/L version - left.
- Equipped with a gas actuator placed in the upper part which makes opening and closing easier, holds the sash stable and prevents it against accidental closure.
- Carefully selected pine wood, laminated for enhanced stability and vacuum-impregnated for protection.
- Windows manufactured using thermoPro technology, offering improved energy efficiency, enhanced durability, excellent airtightness, and easier installation.

FUNCTIONAL ACCESSORIES

- Wide range of internal accessories the same as for roof windows. Selected external accessories are available upon request.

INSTALLATION

- The same flashings are used for side hung escape window installation as for roof windows. As a result, both types of windows can be installed in combinations.

INSTALLATION RANGE

- 15-55°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION	FWP P50 APMX	FWP U41 APMX	FWP U30 APMX
U_w	1.1 W/m ² K	1.1 W/m ² K	-
U_w with Thermo flashing	1.0 W/m ² K	1.0 W/m ² K	-
R_w	38 dB	35 dB	33 dB
MATERIAL	Pinewood	Pinewood	Pinewood
WOOD COLOUR	NATURAL Coated twice with clear water-based varnish. Also available in white.	NATURAL Coated twice with clear water-based varnish. Also available in white.	NATURAL Coated twice with clear water-based varnish. Also available in white.
AIR INLET	No air inlet.	No air inlet.	No air inlet.
GLAZING UNIT	Triple-glazed unit Toughened external glass Warm TGI spacer Easy maintenance layer Safe internal glass Soundproof glass	Triple-glazed unit Toughened external glass Warm TGI spacer - - -	Double-glazed unit Toughened external glass Warm TGI spacer - - -
INTENDED USE	Heated rooms in the attic.	Heated rooms in the attic.	Heated rooms in the attic.

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SIDE HUNG ESCAPE WINDOWS

Dimensions [cm] (frame external dimensions)	66x78	66x98	66x118	78x98	78x118	78x140	94x98	94x118
number of handles	2	2	2	2	2	2	2	2
glazing area [m ²]	0.28	0.38	0.47	0.47	0.59	0.73	0.60	0.75
size symbol	22	03	04	05	06	07	15	08

TRIPLE-GLAZED WOODEN WINDOWS

PWP P50

PWP U41

DOUBLE-GLAZED WOODEN WINDOWS

PWP U30

SIDE HUNG ESCAPE WINDOWS

SAFE ACCESS TO THE ROOF

DESIGN

- Combination of a roof window and an access roof light to provide quick, safe and easy access to the roof as well as ingress of natural light and roof ventilation.
- Universal design as the opening side can be changed before installation. Available with a factory pre-fixed right-opening side. It is possible to order FWP/L version - left.
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FUNCTIONAL ACCESSORIES

- Wide range of internal accessories the same as for roof windows. Selected external accessories are available upon request.

INSTALLATION

- The same flashings are used for side hung escape window installation as for roof windows. As a result, both types of windows can be installed in combinations.

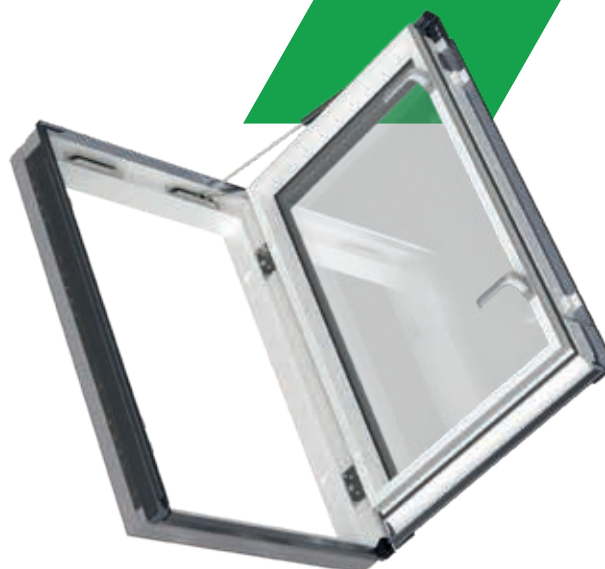
INSTALLATION RANGE

- 15-55°.

THREE CLADDING COLOURS TO CHOOSE FROM

- Anthracite RAL 7016 - standard.
- Grey-brown RAL 7022 with longer order processing time.
- Black RAL 9005 with longer order processing time and extra charge.





SPECIFICATION	PWP P50 ABMX	PWP U41 ABMX	PWP U30 ABMX
U_w	1.1 W/m ² K	1.1 W/m ² K	-
U_w with Thermo flashing	1.0 W/m ² K	-	-
R_w	-	-	-
MATERIAL	The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.	The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.	The PVC profile is a multi-chamber construction reinforced internally with galvanized steel. The material does not absorb moisture and does not require repainting. The durability of the complete window depends on correct installation, use, and maintenance.
WOOD COLOUR	WHITE	WHITE	WHITE
AIR INLET	No air inlet.	No air inlet.	No air inlet.
GLAZING UNIT	Triple-glazed unit Toughened external glass Warm TGI spacer Easy maintenance layer Safe internal glass Soundproof glass	Triple-glazed unit Toughened external glass Warm TGI spacer — — —	Double-glazed unit Toughened external glass Warm TGI spacer — — —
INTENDED USE	Heated rooms in the attic.	Heated rooms in the attic.	Heated rooms in the attic.

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SIDE HUNG ESCAPE WINDOWS

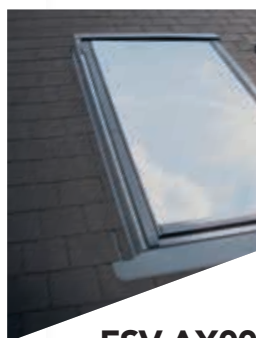
Dimensions [cm] (frame external dimensions)	66x78	66x98	66x118	78x98	78x118	78x140	94x98	94x118
glazing area [m ²]	0.28	0.38	0.47	0.47	0.59	0.73	0.60	0.75
size symbol	22	03	04	05	06	07	15	08



FLASHINGS

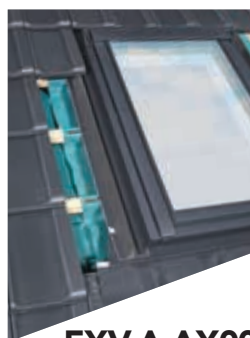
- A flashing is an essential element for proper installation of a window in the roof. Precisely designed components of the flashing allow for a durable and tight connection of the window with the roof covering. Its tasks is to drain rainwater and snow away from the window and to provide window protection.
- FAKRO product range includes a number of flashing types that are made of aluminium sheet, permanently protected with modified polyester paint. The basic colour is anthracite RAL 7016, which makes the window blend seamlessly with standard roof covering colours.
- The Thermo EHV-AT AX00 universal flashing with additional thermal insulation provides a weathertight connection between the window and the roof covering. The insulating material integrated into the flashing fits tightly around the window frame above the batten level, creating an insulating frame once installed. Depending on the window model and installation configuration, the flashing can improve the thermal transmittance coefficient by up to 15% compared with the corresponding standard flashing. The flashing is also available in other versions, including EZV-FT Thermo for flat tiles, EBV-PT Thermo and EGV-T Thermo for metal panel sheet or ELV-T Thermo for slate roof coverings.

Standard flashings allow for window installation in the most popular roof covering types:



ESV AX00

for thin flat roof coverings with a thickness of up to 10 mm (2x5 mm). Available in ESV-T AX00 version.



EXV-A AX00

for profiled roof coverings with a profile thickness of up to 45 mm. Also available in the Thermo version: EZV-AT AX00.



EHV-A AX00

For profiled roofing materials with a profile height of up to 90 mm. Also available in the Thermo EHV-AT AX00 version.



EZV-F AX00

for flat tiles. Available in EZV-FT AX00 version.



ELV AX00

for plain tile roof coverings with a thickness of 24 – 32 mm. Available in ELV-T AX00 version.



EBV AX00

for metal panel sheet. Available in EBV-T AX00 Thermo version.

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FLASHINGS FOR WINDOW COMBINATIONS

The combination system is a ready-made solution for joining windows into groups: horizontal, vertical and block. In combination systems, the distance between windows in both vertical and horizontal directions is 10 cm. The FAKRO modular combination system consists of seven modules, allowing to complete any standard window combination.



B2/1

Horizontal combination



B1/2

Vertical combination



B2/2

Block combination





ACCESSORIES FOR ROOF WINDOWS

FAKRO roof window accessories combine functional and operational features with attractive design. Accessories can be divided to internal and external by virtue of the place of their installation. A wide range of accessories enhances the window's functionality, enabling control of daylight ingress, helping to reduce interior heat gain, and improving user comfort. Both internal and external accessories feature ease of use.

The range of FAKRO accessories also includes electrically operated by means of a remote control or wall switch and even a smartphone app.

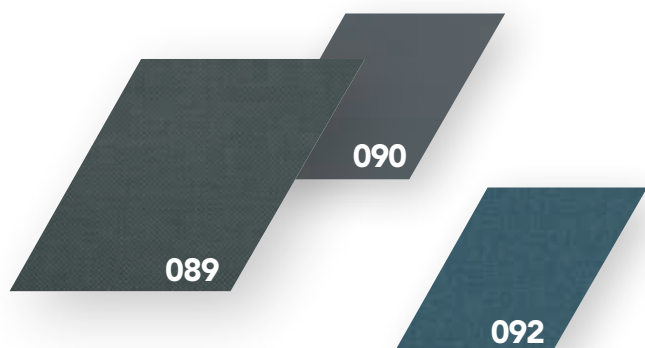
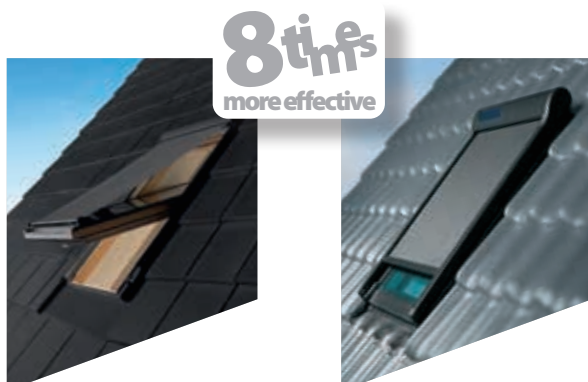




EXTERNAL ACCESSORIES FOR ROOF WINDOWS

- External accessories (awning blinds and roller shutters) provide effective protection against excessive heat gain in the attic on hot summer days.
- Accurate matching of accessories to FAKRO roof windows ensures their quick and easy installation.
- External awning blinds help limit solar heat gain and support a more comfortable attic on hot, sunny days.

EXTERNAL ACCESSORIES

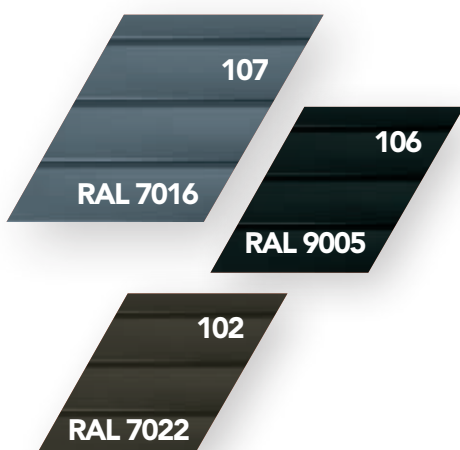


AMZ KOMFORT awning blinds for standard and GREENVIEW windows

- AMZ KOMFORT awning blind operated manually or via a control rod (included)
- AMZ KOMFORT Z-Wave awning blind operated via a remote control (it must be purchased separately)
- AMZ KOMFORT WiFi Tuya awning blind operated via a smartphone app
- AMZ KOMFORT Z-Wave Solar awning blind operated automatically or via a remote control (it must be purchased separately)
- AMZ KOMFORT Electro 230 awning blind connected to the mains and operated via a wall switch (it must be purchased separately)

ADVANTAGES

- in the referenced test configuration, the AMZ KOMFORT awning blind reduced solar heat gain **up to 8 times more effectively than the specified internal blackout blind**
- effective shading without restricting views to the outside
- helps limit solar heat gain and improve attic comfort on sunny days when correctly matched and installed.



ARZ KOMFORT roller shutter for standard and GREENVIEW windows

- ARZ KOMFORT Z-Wave roller shutter operated via a remote control (it must be purchased separately)
- ARZ KOMFORT WiFi Tuya roller shutter operated via a smartphone app
- ARZ KOMFORT Z-Wave Solar roller shutter operated via a remote control (it must be purchased separately),
- ARZ KOMFORT Electro 230 roller shutter connected to the mains and operated via a wall switch (it must be purchased separately)

ADVANTAGES

- effective protection against burdensome heat
- When closed, the ARZ KOMFORT roller shutter can help reduce heat loss through a compatible roof window. The effect varies by window, installation and conditions.
- room shading
- making break-in attempts more difficult
- protection of privacy
- noise reduction

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INTERNAL ACCESSORIES FOR ROOF WINDOWS

- Internal accessories put the finishing touch to any interior design. The wide range of types, styles and colours ensures complete harmony with your chosen décor and helps shape a room's character.
- Accessories allow the amount and intensity of daylight entering the room to be adjusted. Selected blackout blinds substantially reduce incoming daylight, helping create darker conditions for rest even on sunny days. Performance depends on the chosen model, size and installation.
- Accurate matching of accessories to FAKRO roof windows ensures their quick and easy installation. Original accessories from FAKRO feature high quality, innovative solutions and aesthetic design.

INTERNAL ACCESSORIES



**Venetian blinds
AJP**

- control of the amount of incoming light
- adjustment of slats to change the direction of light entering the room



**roller blinds
ARS**

- protection against sunlight
- can be locked in three different positions



**roller blinds
ARP**

- protection against sunlight on sunny days
- can be locked in any position
- available in Z-Wave, WiFi (Tuya) and Solar versions



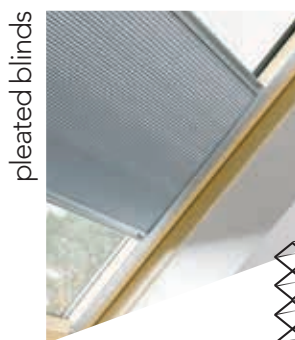
**blackout blinds
ARF**

- very good protection against sunlight until room darkening
- can be locked in any position
- partial protection against heat gain
- available in Z-Wave, WiFi (Tuya) and Solar versions



APS

- provision of soft and diffused light
- can be locked in any position
- top-down system – easy operation by means of an upper and lower bar



APF

- variable reduction of incoming light until room darkening
- can be locked in any position
- top-down system – easy operation by means of an upper and lower bar



**insect screens
AMS**

- protection against insects
- minimum room shading
- option to install with other internal and external accessories



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TUYA WIFI CONTROL



■ TUYA WiFi is a range of FAKRO products designed for modern buildings. A FAKRO TUYA WiFi electric roof window can become the first smart device in your home, providing enhanced comfort in the attic. Using an app such as FAKRO Smart, you can control windows and accessories, regulating the flow of fresh air and the amount of natural light inside.

By expanding the system with additional accessories, you gain even more options for adapting attic

conditions to your needs. TUYA WiFi devices are part of a smart home system that is easy to install, expand and manage on a daily basis. The system can be implemented at any stage of a building's use.

The range also includes Solar products equipped with a battery recharged by a solar panel. TUYA is a smart home solutions platform. Create your own FAKRO smartHome with TUYA WiFi.



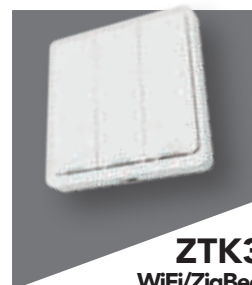
ZTG
WiFi/ZigBee
Gateway

■ Enables TUYA WiFi products to be controlled using the ZTP3 remote control and the ZTK3 wall switch. Required for controlling Solar TUYA devices.



ZTP3
WiFi/ZigBee
Remote Control

■ 3-channel remote control for TUYA WiFi devices. The ZTG gateway is also required.



ZTK3
WiFi/ZigBee
Wall Switch

■ 3-channel wall-mounted switch for controlling TUYA WiFi devices. The ZTG gateway is also required.

Z-WAVE CONTROL

- A system solution designed for implementation in smart buildings.
- Z-Wave is a wireless communication protocol used to control electrical household devices.
- Any electrical device equipped with a Z-Wave system module can be connected to the network. Compatible products include Z-Wave windows, standard windows fitted with Z-Wave actuators, ARZ Z-Wave external roller shutters, AMZ Z-Wave awnings, AJP Z-Wave internal accessories, ARF Z-Wave blinds and ARP Z-Wave blinds.
- Rain and wind sensors can also be connected to the windows, and the system can be integrated with other electrical household devices.
- The system does not require communication cables between electrical devices, which significantly reduces installation costs and time.
- The Z-Wave system is easy to install, expand and manage throughout the building's service life. It enables the creation of a wireless network and control of products equipped with a Z-Wave module using a wireless wall switch, remote control, mobile phone or the internet.
- FAKRO products equipped with a Z-Wave module are compatible with FIBARO electronics. With a compatible gateway, supported app, active internet connection, correct configuration and power supply, users can control compatible FAKRO Z-Wave products remotely.



ZRH12

- Z-Wave remote control for individual or group operation of devices, supporting up to 12 groups.
- Also available as the ZRH1 single-channel version.



ZRS24

- Multifunctional Z-Wave remote control providing advanced configuration and operation of all devices within the Z-Wave network.



ZRW7

- Z-Wave wall switch for controlling multiple Z-Wave devices simultaneously or in groups.



ZWK1

- Z-Wave radio controller for remotely controlling a single device or a group of Z-Wave devices. Compatible with the 54-series Kontakt-Simon range. Also available in the ZWK2 version and the ZWK3 3-channel version.



ZWL1

- Z-Wave radio controller for remotely controlling a single device or a group of Z-Wave devices. Compatible with the Sonata range by Ospel. Also available in the ZWL2 version and the ZWL3 3-channel version.



**GATEWAY
ZGW8 SUPLA**

- Z-Wave gateway for controlling FAKRO Z-Wave products using the Supla smartphone app.



**GATEWAY
HC3 LITE**

- Z-Wave gateway for controlling FAKRO Z-Wave products using the Yubii smartphone app.

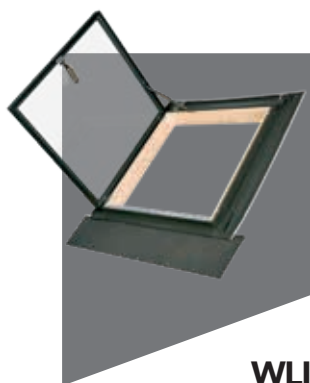
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FOR UNHEATED
ROOMS

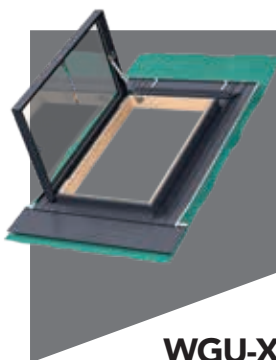
STANDARD ACCESS ROOF LIGHTS

Access roof lights provide quick, easy and safe access to the roof for chimney sweeping, installation and maintenance work.



WLI

- Hatch construction with a side-opening sash. The access roof light is fitted with a double-glazed unit featuring external and internal toughened glass panes, 4H-8-4H. It can be installed with the sash opening either to the right or to the left. The restrictor securely holds the sash in the open position and prevents accidental closing.
- Suitable for installation in roofs with pitches from 15° to 70°.
- The 86 × 87 cm access roof light meets the technical requirements applicable to buildings and their location.



WGU-X

- Hatch construction with a side-opening sash:
 - double-glazed unit with an external toughened glass pane, providing increased resistance to hail;
 - fitted with a gas spring for easier operation and protection against accidental closing;
 - supplied with a universal flashing and a vapour-permeable flashing;
 - supplied with a threshold strip;
- Anthracite colour, RAL 7016, as standard.
- Suitable for installation in roofs with pitches from 15° to 60°.



WG_

- Hatch construction with a top-opening sash, available in two versions:
 - WGI version with a double-glazed unit featuring an external toughened glass pane, 3H-8-3, and a gas spring;
 - WGT version with a single 4H toughened glass pane.
- Suitable for installation in roofs with pitches from 15° to 60°.

LOFT LADDERS

Loft ladders provide easy and safe access to the loft. They take up little space and are safe and convenient to use.

SCISSOR



**LET
Electric**

- electrically operated scissor loft ladder,
- automatic opening by means of a remote control,
- two control system options:
 - Z-WAVE, remotely operated using a remote control,
 - TUYA WiFi, operated via an app and smartphone.

WOODEN



**LWT
Super
Thermo**

- stable wooden ladder with a three- or four-section folding design,
- classic appearance and aesthetic finish,
- high energy efficiency,
- possibility of ordering loft ladders made to non-standard sizes.

METAL



**LMT
Super
Thermo**

- solid construction with a metal ladder, maximum load capacity of 200 kg,
- designed for thermally demanding projects,
- easy to keep clean, ideal for garages and utility rooms,
- available in non-standard sizes.

GREENSTEP

A NEW GENERATION OF LOFT LADDERS

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EXCLUSIVE FACADE WINDOWS



INNOVIEW facade windows are made from wood and aluminium, pairing the natural qualities of wood with the durability of aluminium cladding. The aluminium cladding allows the wooden profiles to be visually adapted to current architectural trends while increasing their resistance to weather conditions. Natural wood on the interior gives the windows a warm and elegant character.

Large HS sliding doors open up a new perspective on the interior space. They make it possible to create interiors that are open to the surrounding world. Thanks to the possibility of customising the size and shape of the windows, FAKRO | INNOVIEW allows architects and investors to take a new approach to interior design, using perspective, views and the character of the surroundings as integral elements of the design concept.

In addition to INNOVIEW windows, FAKRO offers roller shutters for facade windows and garage doors in INNOVIEW aluminium joinery. Modern designs and a wide range of colours ensure that INNOVIEW windows and doors can be matched to the form of the building and even to its surroundings.



www.fakro.com

FAKRO reserves right to change at any time.