



FAKRO ROOF WINDOWS,
ONE STEP AHEAD

10 TIPS how

TO SELECT A ROOF WINDOW



FAKRO was established in 1991 and is the second largest manufacturer of roof windows in the world. With 3,300 employees, twelve plants, more than two hundred thousand square metres of production space, fourteen foreign subsidiaries and an extensive distribution network it is an important supplier in the construction market.

The company offers a wide range of roof windows, complemented with roof window accessories such as venetian blinds, external and internal roller blinds, external awning blinds, control units, remote control systems and smoke ventilation systems. FAKRO is also one of the world's leading producers

of loft ladders with a range of products suitable for a wide range of applications

We understand that sometimes choosing a roof window can be difficult so we've prepared 10 tips to make it easier. We hope it will help you make the correct choice for your construction and renovation projects.

At the same time please remember, that we remain at your disposal, to give you any additional information you may require.

FAKRO team.

HOW **WILL** YOU MAKE A HOME?



Choosing the right type of roof window depends on the environment of your home. If you live surrounded by nature probably the best idea is to invest in a panoramic view. Classic pivot windows are very popular, however top hung and pivot windows provide increased benefits and more opportunities.

When open, the top hung function gives an unrestricted field of view at a lower height than a centre pivot window while the pivot operation enables the sash to be rotated through 180° to clean the outer pane from within the room. The FAKRO preSelect function with two independent opening

mechanisms allows a change from top hung to centre pivot operation at the flick of a switch. Increased daylight can be gained using windows with a raised axis of rotation. This enables a greater glazing height to be achieved without adding to the window's width. It also

allows scope to choose twin sash windows in a single frame.

In addition to our standard range of windows we are able to offer bespoke products that are personalised to the needs of the customer.



FAKRO advantage:
We offer a full range of windows for flat and angled roofs complemented by a full choice of accessories

01

02

HOW MUCH **DAYLIGHT** DO YOU NEED?



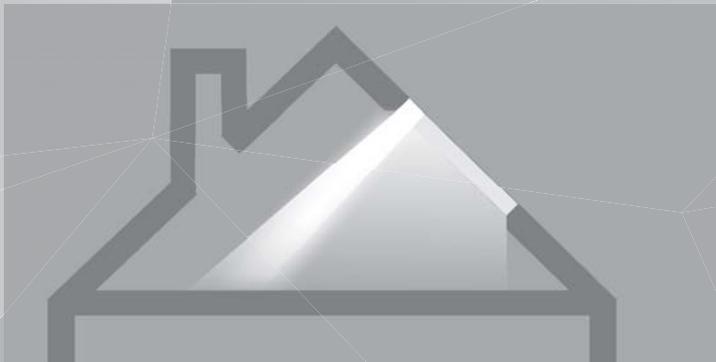
For optimum illumination of the interior of any building, windows must provide a glazing area of at least 10% of the entire floor surface. Sometimes small windows can be combined to provide a greater flow of light than one

large window. Moreover, the higher the window roof is installed in the roof the more light enters the room. That is why FAKRO windows which have their handle at the bottom of the sash as standard

and are easier to operate can be installed higher in the roof greatly increasing the brightness in the room.

FAKRO advantage:

Larger
glazing
area



Fakro advantage:

Solutions for
all roof types
and pitch

WHAT IS YOUR ROOF **PITCH?**



FAKRO windows are well suited for a roof pitch of between 15 and 90 degrees. However, the installation pitch range may differ for certain types of windows. FAKRO also offers a wide range of windows for flat roofs.

Options are available with an innovative non domed design or with robust polycarbonate domes. They can be mounted on roofs with pitches respectively 2-15 and 0-15 degrees.

15° ↔ 90°



04

SUPER SAVINGS WITH HIGHLY ENERGY-EFFICIENT WINDOWS!



If you have a well-insulated roof, the crucial thing is to have equally high insulation of the roof window otherwise it becomes a weak link that causes heat loss. In some situations, it is sufficient to use a standard two-

chamber window with a thermally insulated glazing unit and flashing. In others, a better choice would be a highly energy-efficient roof window specially designed and supplied with insulating flashing. However, to

meet the requirements of a passive house specification, a window with a super-efficient three chamber glazing unit may be the optimum choice.

FAKRO advantage:
FTT U8.
Most thermo-insulated window on the market.



WILL YOUR ROOF WINDOW BE FITTED IN ROOMS WITH **ELEVATED** HUMIDITY?

05

FAKRO advantage: PVC profile windows are ideal for rooms with elevated humidity levels.



Wood is a living material and as such requires constant maintenance. PVC profile windows with steel reinforcement are a practical solution for bathrooms or in places where regular

maintenance is difficult. An alternative solution is to use wooden roof windows covered with a coating of white polyurethane. Glazing units where the external pane is tough-

ened and coated with an easy maintenance layer help prevents the build-up of dirt and keep the window clean.



06

FAKRO advantage:
Electrically controlled roof window for maximum comfort.

MANUAL OR **ELECTRIC** CONTROL?



The control of household appliances has become increasingly sophisticated. The emergence of the smart home sees products fitted with Z-Wave, the next generation wireless system

which using low power radio waves can operate a range of devices including lighting, air conditioning and roof windows. FAKRO windows can be opened and closed electronically by remote control

or by wall switch. Electrical accessories such as blackout, roller and Venetian blinds as well as external roller shutters can be operated with ease.





ENHANCED ANTI-BURGLARY RESISTANCE?



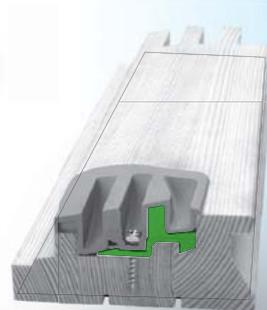
If the roof is easily accessible from the outside, especially when the garage is adjacent to the house, think about installing roof windows with increased resistance to burglary. FAKRO roof windows have been designed to provide

the highest sense of security and are equipped with the pioneering topSafe system of reinforcement. Used in conjunction with toughened external glass, the system significantly improves the resistance to break-in attempts and pro-

tections against the sash opening if inadvertently stepped on. This has enabled all FAKRO products to meet a minimum Class III - EN13049 for safety and security.

FAKRO advantage:
Window with enhanced anti-burglary resistance.
Since 2008

07



08

FAKRO advantage:
A wide variety of
glazing units to
meet all your
requirements.

WHICH GLAZING UNIT TO CHOOSE?



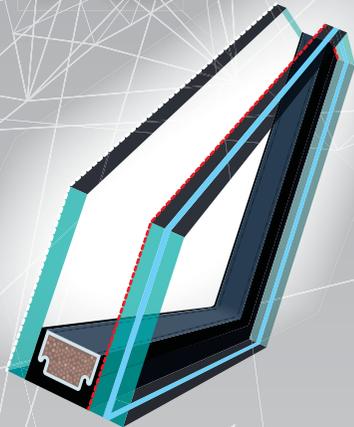
We offer a full range of glazing units to suit your particular requirements. For all windows above head height we recommend using laminated glass. This

type of glazing is made up of two sheets of glass with a plastic membrane between. If the glass shatters, the shards are retained by the membrane. Energy ef-

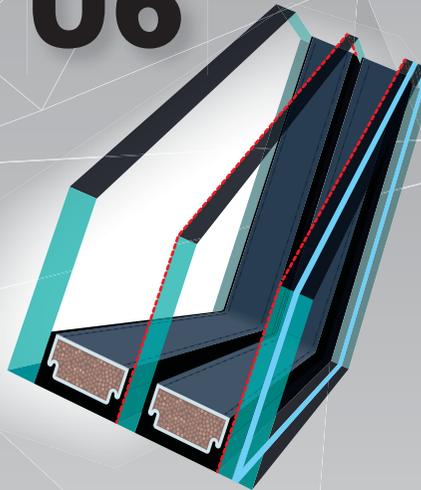
ficient triple-glazing options available ensure exceptional thermal efficiency with a U-value as low as $0.5 \text{ Wm}^2\text{K}$, almost completely preventing heat loss through the

roof window. Other glazing choices include tinted, obscure, reflective and self-cleaning glass.

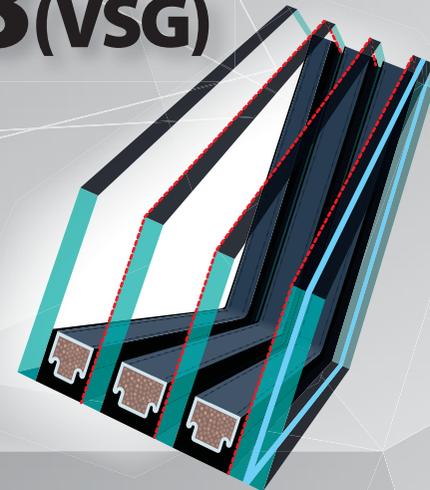
P2



U6



U8 (VSG)



FAKRO advantage:
There are
3 depths
of installation

Since 2000

WHO WILL **INSTALL** YOUR ROOF WINDOW?



You may be tempted to install the window on your own, however to ensure long-term performance we suggest using professional help. Roofers know our products and are able to install them in the correct way. Consideration should be given to the selection of the flashing matched to both the window and the roof. Flashing type depends on the type of the roofing material. FAKRO offers standard flashings

intended for the most common types of roof covering: flat, profiled, or high profile. Roof windows can be installed in the roof structure at three different levels: N (+3cm), V (0cm) and J (-3cm). Additionally flashings are available with built-in insulation material for increased thermal efficiency.

10

HOW TO PROTECT THE INTERIOR AGAINST EXCESSIVE HEAT AND **SUNLIGHT**?



FAKRO's new generation of contemporary awning blinds includes the AMZ Solar which, in addition to being solar-powered, is also activated by a photovoltaic sensor. It is around eight

times more effective than an internal blind in terms of passive heat reduction while still allowing light through. In addition to preventing heat absorption, the AMZ Solar opens automatically in

cloudy weather to increase availability of natural light. In winter, it reduces noise from rain and hail and protects the window from accumulation of snow and leaves.

Internal accessories



Venetian blind
AJP



Roller blind
ARS



Roller blind
ARP



Blackout blind
ARF



Pleated blind
APS

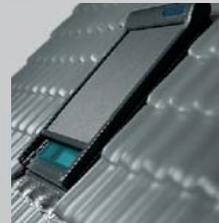


Insect screen
AMS

External sun protection



Manually operated
AMZ



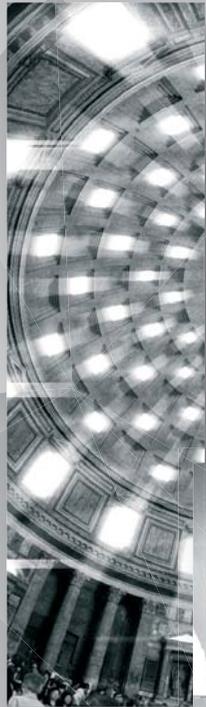
Electrically
or manually
operated
AMZ Z-Wave,
AMZ Solar



Roller
shutter
ARZ



Vertical awning
blind
VMZ





Hillcrest a Green Oak frame house in South Cheshire, UK. Ridge flashings link windows to provide passive ventilation control. The combination of eight windows are electrically operated with an external rain sensor.





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