FAKRO ROOF WINDOWS AHEAD OF THEIR TIME
FAKRO has been demonstrating its commitment to producing pioneering, high quality products for over twenty years. By innovating, we have continued to design products which became the industry standard and make people ask for them by name. In effect, we have consistently brought the future into the present day. When designing new roof windows, we take account of every conceivable factor which might affect a user. FAKRO roof windows have been designed not only for comfort and ease of use but style and functional efficiency.

FAKRO designs provide a larger glazing area and have made our windows the most efficient in terms of provision of natural daylight. In addition to greatly enhancing the loft space environment, innovative aspects of our windows such as an automatic air inlet ensure that the optimum level of fresh air is provided without unnecessarily heat loss. The pioneering topSafe® system greatly increased the standard of burglary resistance while the use of environmentally sustainable technologies has enabled us to create the most thermally efficient roof window in the world, the FTT U8 Thermo.

This combines an exceptionally low overall U-value with the use of eco-friendly insulation, and air tight flashing.

Such is our confidence in the quality of FAKRO products, that we can offer long-term guarantees of performance.

FAKRO the first roof windows on the market to be TUV certified.

We are present in 47 countries around the world.

www.fakro.com
The design of Fakro roof windows enables more light to be brought to any room. By placing the air inlet at the top of the frame, FAKRO roof windows provide a glazing area up to 10% bigger than competitors’ products of the same size in which the ventilation flap has been positioned in the sash. FAKRO proSky roof windows offer extended height thereby ensuring superior room illumination and effective light distribution. The higher the window is installed, the better the room lighting and with the handle in the bottom of the sash, the window can be installed correspondingly higher. The recommended installation height for a roof window’s top edge in accordance with DIN 5034-1 is 220cm above floor level. With the handle in the bottom of the sash, even a tall person can stand comfortably by an open window, even a centre pivot one. FAKRO proSky windows, which offer the tallest heights on the market, offer extended height and a raised pivot point which guarantee an unobstructed field of view.
With buildings being designed to provide the lowest possible operating costs, the FAKRO range includes many highly energy-efficient products such as the FTP-V U8, FTT U6 and FTT U8 Thermo, with U-values as low as 0.58W/m²K. The FTT U8 Thermo is the most energy-efficient roof window in the world and is used in conjunction with the specially designed EHV-AT Thermo flashing. The FAKRO approach to energy efficiency does not stop at providing roof windows with good U-values. It also involves the provision of special packages of insulation flashings, and ‘warm’ Thermo flashings with additional insulation. FAKRO offers solutions which guarantee savings on heating costs.

Heat, like a treasure, needs to be protected!

HIGH ENERGY-EFFICIENCY

installed in conjunction with EHV-AT Thermo flashing

The most energy-efficient roof window in the world

since 2011

The XDK Kit - a highly effective way to ensure that the gap around a roof window is insulated effectively.
Reducing unnecessary heat loss

In addition to providing an effective light source, roof windows also act as a means of passive heating in winter. The larger glazed area provided by FAKRO windows is correspondingly more effective in this respect, with the free thermal energy being retained by virtue of their energy-efficient design.

Roof windows can also be used as a source of fresh air and with the V40P automatic air inlet, the optimum amount of fresh air creates a healthy microclimate while avoiding heat loss. Fakro roof window design provides a sustainable balance in terms of air quality and energy saving.

www.fakro.com
Proper installation is key to a roof window’s long-term performance. For over 10 years, FAKRO has used mounting brackets which enable windows to be fitted to either battens or rafters. They can also be installed at three distinct depths: 'Higher' window installation at the N level (3cm higher than standard) in conjunction with Thermo flashing makes the window sit higher within the roof line. Such installations perform better during adverse weather, particularly in situations of high snowfall. Setting the window deeper in the roof (the J level – 3cm lower than standard) reduces heat loss. The improved aesthetics are particularly noticeable with slate and plain tile roofs and can be a significant factor in conservation areas. The use of special packages of XDK insulation flashings provides for quick and correct insulation around the window.

Two options for roof window installation

Installation on rafters
Installation on battens

Three depths of installation

Installation at +3cm
Installation at 0cm
Installation at -3cm
SAFETY & SECURITY

We want to feel safe at home

Roof windows must provide effective protection against potential intruders. 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 protects against the sash opening if inadvertently stepped on. This has enabled all FAKRO products to meet a minimum Class III - EN13049, another standard which FAKRO was first to achieve.

UNIQUE SYSTEM of window re-enforcement topSafe

Innovative system of specially shaped and mounted hinges prevents timber splitting or forcing of the hinges and sash. This solution is several times stronger than any previously developed or used.

Metal reinforcement makes break-in using a crowbar much more difficult.

Specially reinforced structure and locking parts.

Increased anti-burglary reinforcement since 2008
Innovation is at the heart of all FAKRO research and development. At our modern R & D centre, we always seek to create unique products and innovative solutions. In addition to the topSafe system, other industry-leading developments have included the preSelect® top hung and pivot window and the proSky® high pivot window. Innovation has become a key driver for the company and as a result FAKRO holds more than 100 patents and patent applications.

Creativity changes the world

The new generation preSelect roof window offers two distinct means of opening the sash. It can be used as either a top hung or centre pivot window, with both offering complete stability and improved safety. Changing from top hung to centre pivot operation is achieved simply by use of a preSelect switch in the frame. This activates a unique system of hardware while ensuring that both functions remain independent of each other.

The FGH-V Galeria balcony window has twin sashes which create a balcony when opened. The upper top hung sash opens upwards, while the lower sash tilts outwards allowing easy access to the balcony opening. Balustrades are an integral element of the bottom sash and when closed are hidden in the window, with nothing visible above the roof line. As a result there are no obtrusive elements of cladding to collect dirt and leaves which would spoil the aesthetic of the roof line.

When designing the Secure window, we took the concept of burglary protection to another level. In addition to using topSafe, the window is equipped with a system which prevents removal of the glazing unit and uses an anti-burglary internal pane Class P2A. Our Secure windows do not require additional locks and are therefore more aesthetically stylish and functionally efficient.

The FAKRO Electric awning blind provides exceptional ease of use. It is operated by remote control either to provide a light screen in an instant or position it at any point. Our solar awning blind is fully automatic, depending on the degree of insolation.
Roof windows are now frequently used as an intrinsic element of contemporary interior design. All FAKRO roof windows offer a critical combination of quality, functionality and visual appeal. Great care is taken to ensure that the highest standard of manufacturing goes hand in hand with attention to styling to suit any interior design style. From an exterior perspective, profiles are both modern and compatible with any roof structure or pitch.
In addition to placing heavy emphasis on aesthetics, a key requirement of any FAKRO product is that it should offer the highest standard of durability. FAKRO roof windows have been designed to function effectively in the harshest environments to a standard which others either do not offer or have been slow to introduce.

**SOLUTIONS not offered by others**

In terms of environmental impact, FAKRO products are designed to provide the highest standards of thermal efficiency while being manufactured using replenishable natural resources. Low profile solar panels can also be used in modular form with FAKRO roof windows to enable free energy to be harvested. Ecological considerations extend to the sustainable use of other raw materials in conjunction with management planning and rational waste management in the production process.

- A system for which a patent is pending relates to special locks used in FAKRO roof windows which protect the glazing unit against unauthorized removal. Other manufacturers may offer only laminated glass which can be removed simply by undoing the retaining profiles.

- Protection of corners is currently the subject of a further patent application in which the technology of joining window profiles makes FAKRO roof windows perform even in the most extreme weather conditions. Unlike other competitors’ roof windows (particularly white windows), no cracks will form in corners.

- ‘Profi’ class roof windows have been equipped with an additional glazing seal which improves airtightness even under the most extreme weather conditions. The seal also provides enhanced acoustic performance.

- A sash guiding system ensures optimum contact between seals and profiles while enabling the window to be installed or removed quickly without taking out the sash.

- Warm TGI spacers reduce thermal bridging, thereby minimizing condensation on either glass or timber and greatly increasing the durability of the timber.

- Vacuum impregnation of the timber is several times more effective than immersion. FAKRO roof windows are vacuum impregnated with exposed surfaces also being finished with successive coats of a durable lacquer to provide lasting protection and appearance.

- In addition to placing heavy emphasis on aesthetics, a key requirement of any FAKRO product is that it should offer the highest standard of durability. FAKRO roof windows have been designed to function effectively in the harshest environments to a standard which others either do not offer or have been slow to introduce.