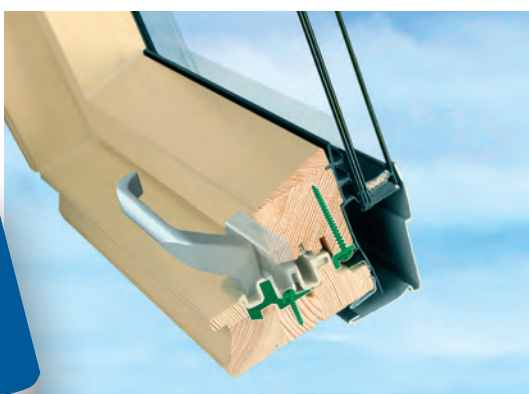
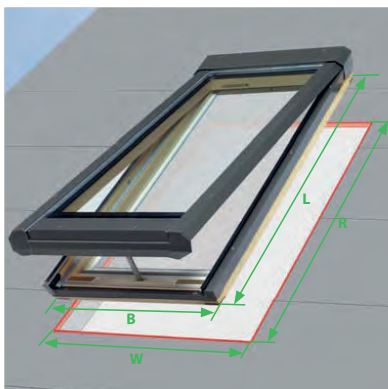
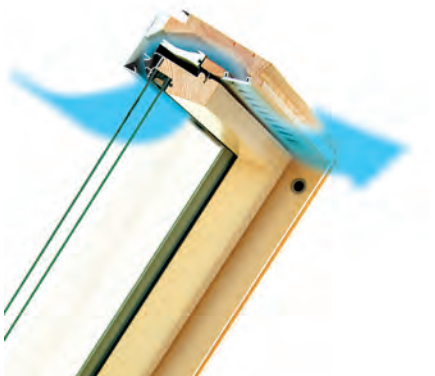


FAKRO®



ROOF WINDOWS AND SKYLIGHTS

homotech™
Better spaces. Better lives.
**100% NZ
OWNED &
OPERATED**

BRANZ Appraised
Appraisal No. 749 [2011]

homotech™
Better spaces. Better lives.





Invite the light inside

Bring daylight into your home and enhance your living spaces with HomeTech FAKRO Roof Windows and Skylights. Daylight is vital to our quality of life, improving our well being and moods, so bring it into your home, making your spaces brighter and healthier. HomeTech is a New Zealand owned and operated company and has been brightening peoples worlds with daylight since 1992.

Call us on 0800 HOMETECH (466 383) to purchase your roof window or skylight or visit www.hometech.co.nz



HOMETECH
100% NZ OWNED
AND OPERATED



BRANZ Appraised
Skylights/Roof Windows
New Zealand



WARRANTY
10 YEARS on insulated glass unit
10 YEARS on skylights/roof windows

WHAT IS YOUR ROOF **PITCH**?



FAKRO windows are well suited for a roof pitch of between 0 and 90 degrees. However, the installation pitch range may differ for certain types of windows.



MAINTENANCE **FREE VENTILATION** Always fresh air in the attic space



Given the tightness of joinery used in modern construction, there can be a reduction of fresh air circulating, which in turn can cause condensation in the room. In order to reduce this phenomenon, FAKRO windows use a number of different air inlets:

V40P

Air inlet V40P is positioned in the top part of the frame. At a pressure difference of 10Pa air inlet capacity is up to 49m³/h depending upon the window width. By automatically adjusting the volume of flow channel, the air inlet secures the optimum amount of air into the room providing a healthy climate in the attic and saving heat and energy costs. Used in FTP-V window.

V10

Air inlet V10 - has a manual adjustment of air flow. When fully opened this inlet provides fresh air up to 9m³/h at a pressure difference of 10Pa. V10 air inlet should be used only in areas where unassisted gravitational ventilation works well. Used in FTS-V window.



ENHANCED **ANTI-BURGLARY RESISTANCE**



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 for safety and security.



AMPLE NATURAL LIGHT

Light = space



The design of FAKRO roof windows provides appropriate illumination of the room. Specially shaped profile of the frame and sash as well as the air inlet location in the upper part of the frame allow for the influx of a high amount of natural light.

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. With the handle in the bottom of the sash, this makes for easy opening with the help of a number of rod options.



SUPER SAVINGS WITH HIGHLY **ENERGY-EFFICIENT** WINDOWS!

Heating does not have to be expensive

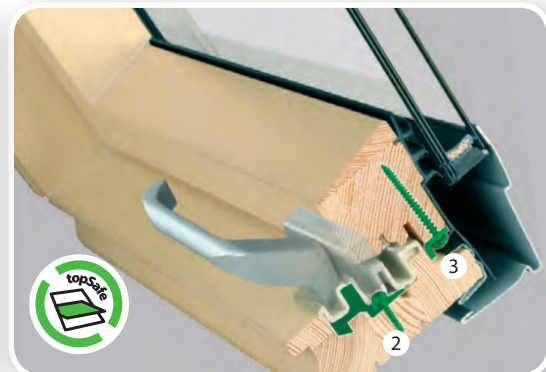
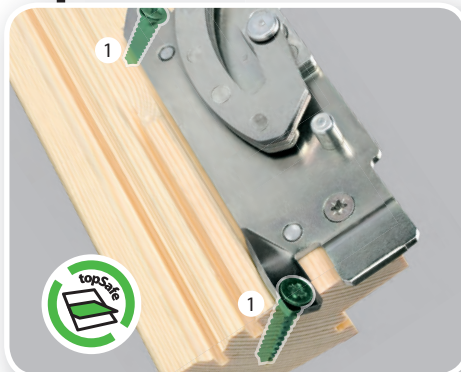


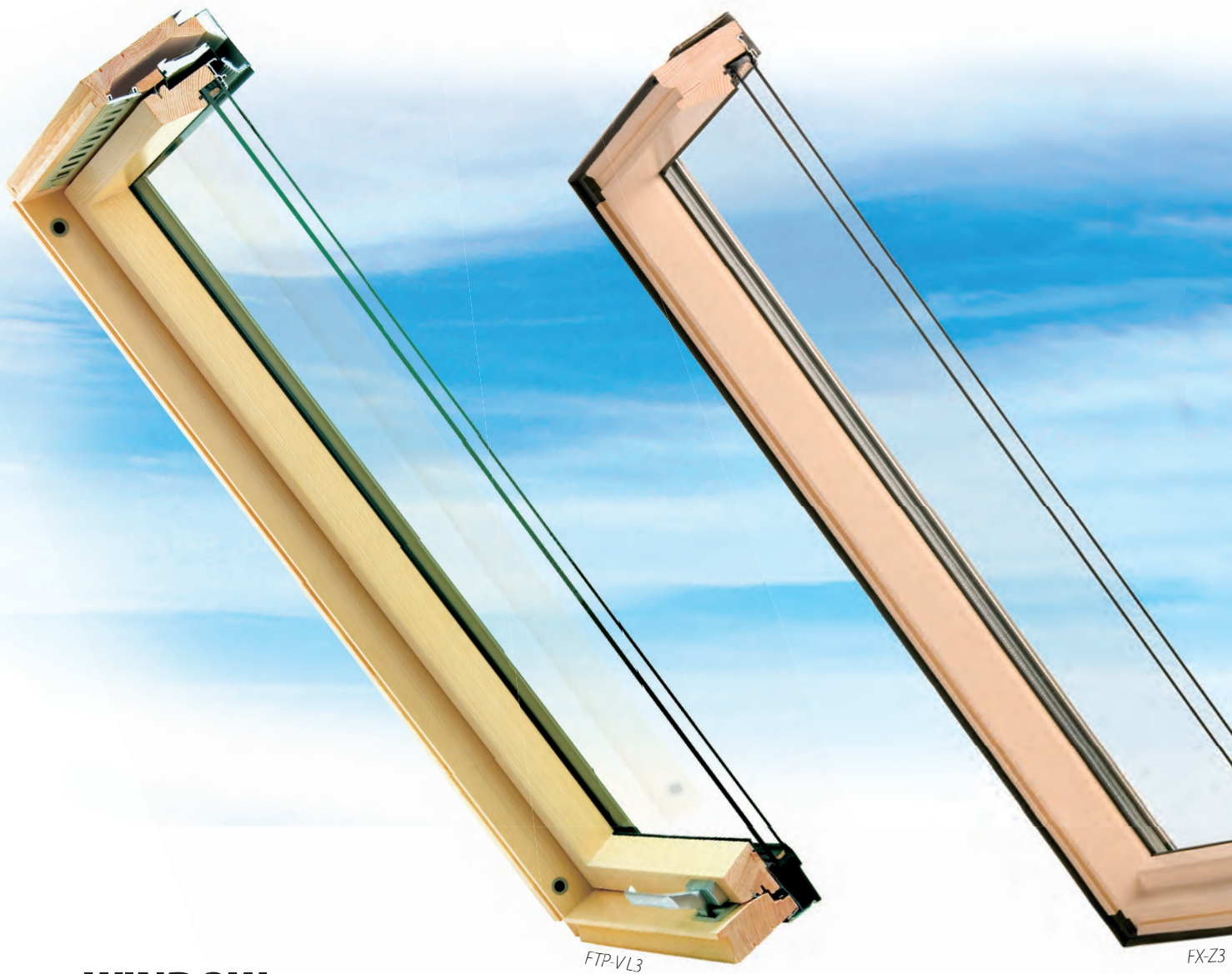
FAKRO offers solutions which guarantee savings on heating costs. If you have a well-insulated roof, the crucial thing is to have equally high insulation of the roof window otherwise it becomes a weak link that causes heat loss. With buildings being designed to provide the lowest possible operating costs, the FAKRO range includes many highly energy-efficient products.



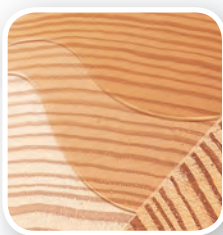
topSafe SYSTEM

- ① innovative installation system of specially shaped hinges,
- ② metal element strengthening the locking system,
- ③ metal slat, making it difficult to break the window open with the help of tools.





WINDOW DESIGN



→ **Factory Finished. No Extra Work Required**

The basic raw material for the manufacturing of windows is the highest quality pine wood, glued in layers. The wood is painted with ecological acrylic lacquer in natural colour. Builders and Homeowners save time and money – knot free, wooden frames on FAKRO roof windows are already finished. The frames are pressure treated, double painted and protected for many years to come. All the joints are sealed and painted – moisture can not seep into the corners on the inside of the window.

High Energy Efficiency

With buildings being designed to provide the lowest possible operating costs, the FAKRO range includes many highly energy-efficient products. Resulting in high quality products the homeowner can count on being the best choice for their home.

FORWARD-LOOKING PRODUCTS

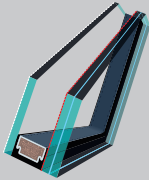
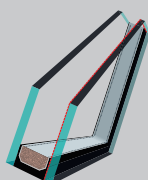
FAKRO products combine excellent quality and innovative solutions. The best materials and technologies provide very good technical and thermal parameters. They ensure long lasting roof windows' durability

→ EXTERNAL PROFILES



The window from outside is covered with profiles pressed from aluminum sheet coated with a modified polyester in iron sand colour resistant to weathering and UV rays.

→ GLAZING UNITS

	Double glazing	Double glazing
		
Glazing unit	L3	Z3
Applies to	solar venting, opening roof windows	fixed skylights
Technical specification	safe	energy efficient
Pane R-value	0.91 m ² K/W	0.91 m ² K/W
Pane U-value (according to EN673)	1.1 W/m ² K	1.1 W/m ² K
Low-E coating	one	one
Number of chambers	single chamber	single chamber
External toughened glazing	+	+
Easy maintenance layer	+	-
Spacer	warm TGI	steel
Inner laminated glass	+	-
Inert gas	argon	argon
Models applicable to	FSV, FTP-V Z-Wave, FTS-V	FXC, FX

Insulated glazing units meet AS/NZS2208 standards.

SOLUTIONS

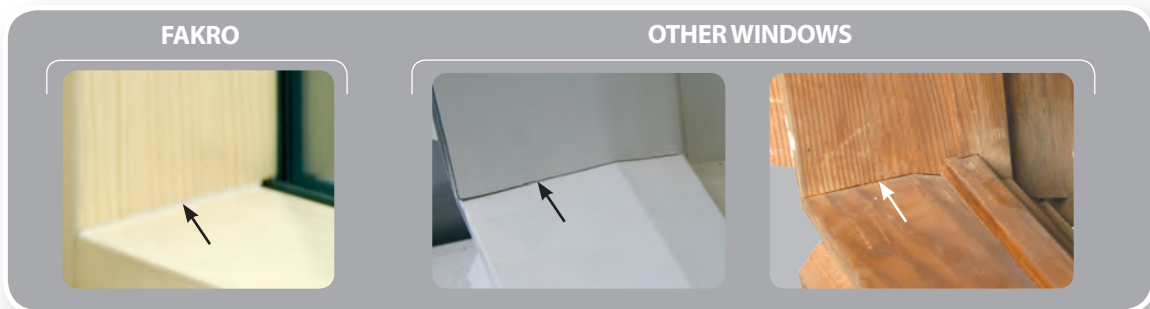
not offered by others

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.

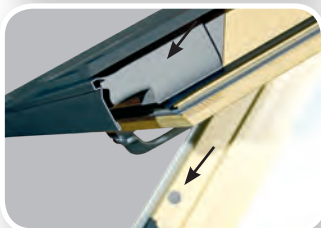


A system for which a patent is pending relates to special locks used in FAKRO roof windows which protect the glazing unit against unauthorized removal. Other manufacturers may offer only laminated glass which can be removed simply by undoing the retaining profiles.

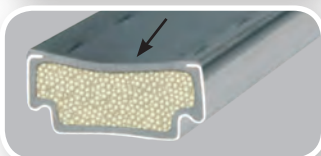
Protection of corners is currently the subject of a further patent application in which the technology of joining window profiles makes FAKRO roof windows perform even in the most extreme weather conditions. Unlike other competitors' roof windows (particularly white windows), no cracks will form in corners.



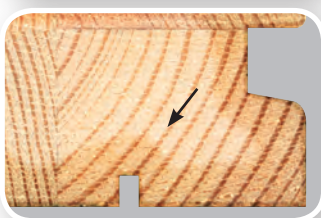
All roof windows (except FTS-V) have been equipped with an **additional glazing seal** which improves airtightness even under the most extreme weather conditions. The seal also provides enhanced acoustic performance.



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 minimising 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.

INNOVATION

Creativity changes the world

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. Innovation has become a key driver for the company and as a result FAKRO holds more than 100 patents and patent applications.



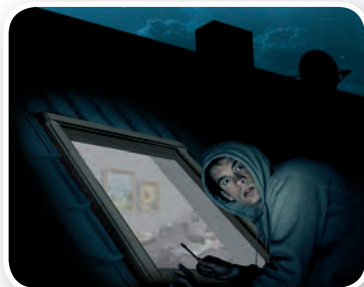
As one of the most innovative companies in Poland, FAKRO uses a revolutionary radio communication system called **Z-Wave** in its products. This allows you to create a single network by combining a range of electrical devices such as: lighting, thermostats, alarms, computers, telephones, air conditioning and electric windows and blinds. Currently, there are over 200 manufacturers of electric household devices associated in the Z-Wave system (amongst others: Intel, Panasonic, Apple, General Electric).

Every single electrical device produced by FAKRO contains its own electronic module incorporating the Z-Wave chip. This enables the creation of wireless networks and the ability to control devices with the Z-Wave module with the use of a wireless keyboard, remote control and also mobile phones or the Internet in the future.

The Z-Wave system is easy to install, expand and manage. Installation of the system does not require any control units or fitting wires between electronic devices. This means a significant reduction in the cost and time of installation, while providing maximum convenience for the user. It can be installed in buildings under construction as well as in already completed properties.

Available as FTP-V L3 780x980 Z-Wave central pivot window.

Available as FVS Solar powered central pivot window.



When designing the antiburglary **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.



FTP-V Z-Wave

CENTRAL PIVOT
WINDOWS

FTS-V

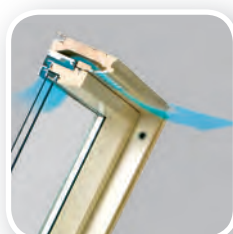
CENTRAL PIVOT
WINDOW



CENTRAL PIVOT WINDOW



- A popular design of windows with a hinge located in the middle of the window height.
- Convenient way to use the window as the handle is located at the bottom of the sash. The handle is equipped with a two step micro-opening facility.
- The unit consists of external toughened pane with easy maintenance layer.
- Easy cleaning of the outer pane when rotated through 180 degrees.
- A wide range of accessories.
- Ability to install electrical controls.
- Installation in roof pitches from 15 to 90 degrees.

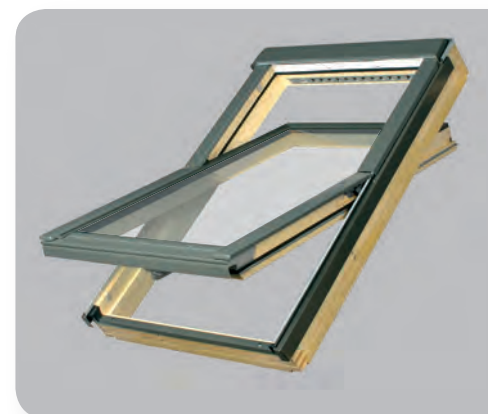


FTP-V L3 Z-WAVE

- V40P** - automatic air V40P
- topSafe** system, with increased resistance to burglary
- L3** - laminated safe glazing unit L3
- Z-WAVE** - window available in Z-Wave system
- the highest quality pine wood, glued in layers, vacuum impregnated
- double coated wood with ecological acrylic lacquer in natural colour

FTS-V L3

- V10** - air inlet V10
- L3** - laminated safe glazing unit L3
- pine wood, glued in layers, vacuum impregnated
- wood painted with ecological acrylic lacquer in natural colour



	Double glazing	Double glazing
Technical specification	FTP-V L3 Z-Wave	FTS-V L3
Glazing	toughened/laminated	toughened/laminated
Window U-value	1.3 W/m ² K	1.4 W/m ² K
Window R-value incl. frame	0.77 m ² K/W	0.71 m ² K/W
Solar Heat gain coefficient g %	51	51
UV light reduction in %	98	98
Sound reduction in db	35 (-1;-3)	35 (-1;-3)

CENTRAL PIVOT WINDOW

windows external dimensions [mm]	550x980	780x980	780x1400
external frame dimensions [mm]	547x981	777x981	777x1401
effective glazing area [m ²]	0.29	0.47	0.72
size symbol	02	05	07
FTP-V L3 Z-Wave	-	+	-
FTS-V L3	+	+	+



FX

FIXED
SKYLIGHT



FIXED SKYLIGHT **FX**


Z3

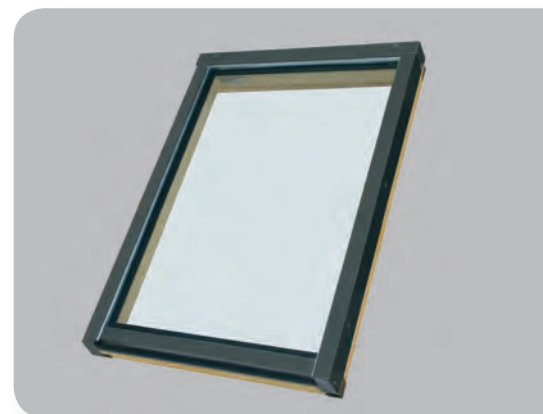

- Easy Installation System - unique in design, the skylight only requires 4-6 screws through predrilled frame holes.
- Low emission coating reflects thermal radiation and therefore reduces heat loss through skylight.
- The highest quality pine wood, glued in layers, vacuum impregnated.
- Double coated wood with ecological acrylic lacquer in natural colour.
- Range of accessories.
- Installation range from 15 to 75 degrees.



Easy installation system
Flashing systems available



Perimeter gasket
Seals the gap between frame and roof construction.



Internal Gasket
Allows drainage of moisture to building exterior.



External Frame
Aluminium coated with UV and weather resistant polyester paint for longevity.

Technical specification	FX-Z3
Glazing	toughened/toughened
Skylight U-value	1.5 W/m ² K
Skylight R-value incl. frame	0.67 m ² K/W
Solar Heat gain coefficient g %	59
UV light reduction in %	39
Sound reduction in db	32 (-1; -4)

skylight external dimensions [mm]	620x980	830x980	830x1400
external frame dimensions [mm]	623x978	826x978	826x1397
effective glazing area [m ²]	0.43	0.60	0.89
size symbol	FX02	FX05	FX07
FX-Z3	+	+	+



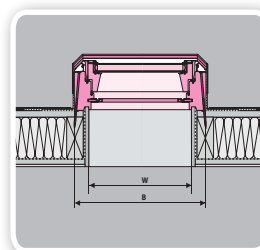
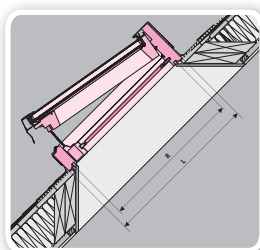
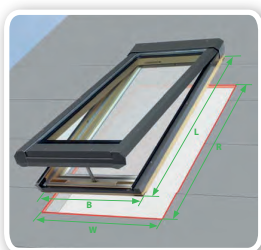
SOLAR VENTING SKYLIGHT **FVS**

NEW



Solar powered skylights are an ideal solution for out of reach applications, where both natural light and fresh air are desired. FVS skylights are equipped with a radio communication system, allowing for easy remote operation without the need of pointing the remote towards the skylights.

- FVS skylight powered by the solar panel integrated with the skylight does not require any connection to the power source.
- Controlled via ZWave Technology
- Suitable for roof pitches between 15-85 degrees
- Tempered / Laminated Glazing
- Integrated solar panel (FVS)
- Low emission heat reflecting double glazing glass
- Perimeter gasket underneath the frame
- Easy "bracket free" installation
- Double seals between the frame and the sash
- Internal gasket system to collect and drain any condensation water to the outside
- Mosquito screen included
- Integrated rain sensors
- Remote control operated

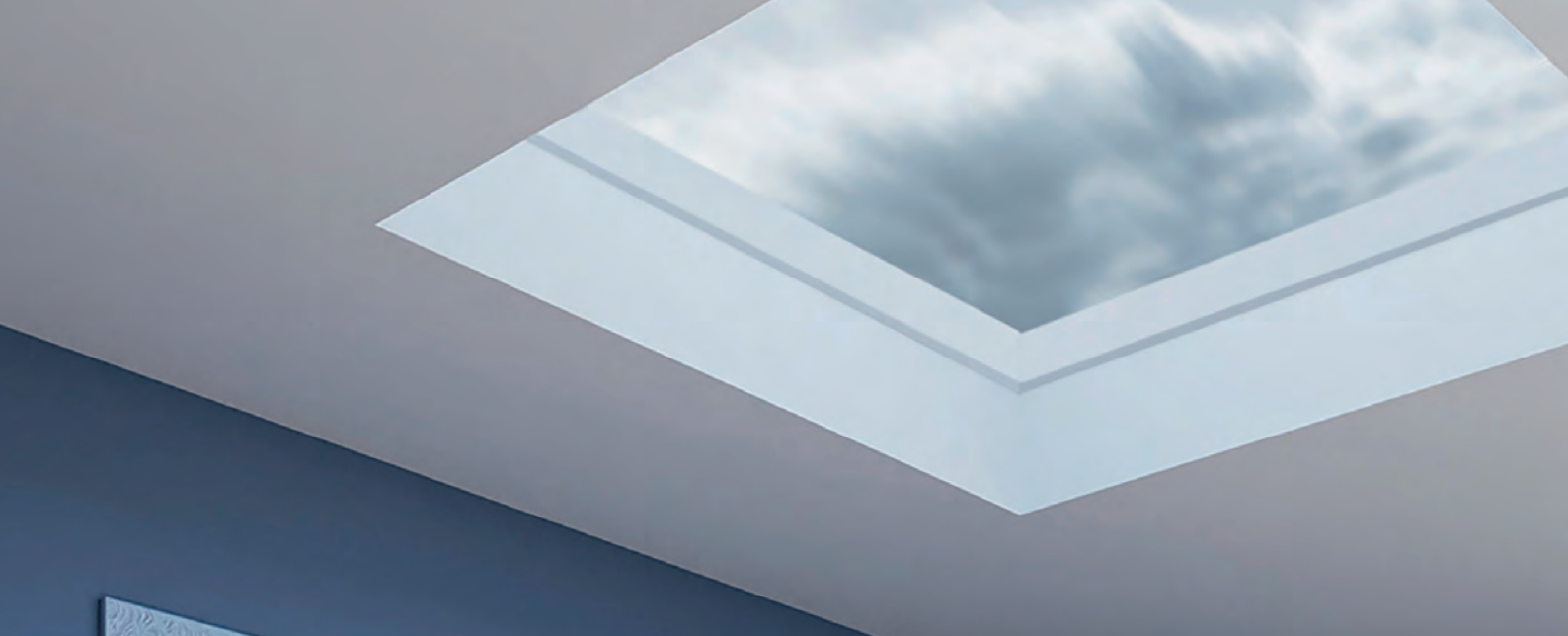


NEW

Technical specification	FVS G31
Glazing	toughened/laminated
Skylight U-value	1.4 W/m ² K
Skylight R-value incl. frame	0.71 m ² K/W
Solar Heat gain coefficient g %	51
UV light reduction in %	98
Sound reduction in db	35 (-1;-3)

FVS

size [mm]	826x978
internal dimensions [mm]	771x957
effective glazing area [m ²]	0.53



CURBED MOUNTED FIXED SKYLIGHTS **FXC**

(FLAT ROOF OPTIONS)

NEW

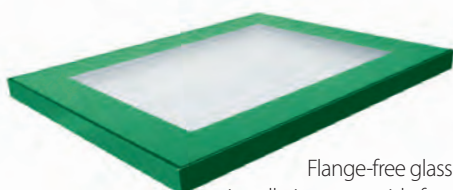
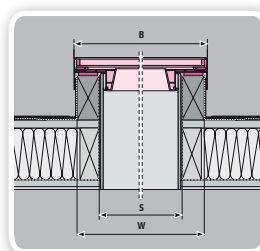
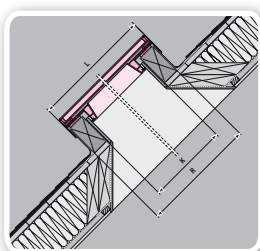
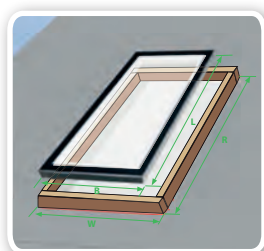
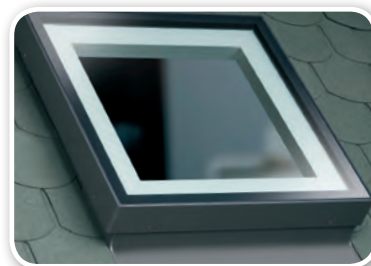


Newly developed curb mounted fixed skylight incorporates simplicity of installation, long trouble free use and the beauty of modern design.



Following world design trends of electronic devices, FAKRO has developed curb mounted skylight with completely (smartphone like) flat surface, allowing installation on any type of roofs and in any direction. (360° turn-around installation).

- Suitable for roof pitches between 0-60 degrees
- Toughened/Toughened glazing
- Unique modern design
- Low emission heat reflecting double glazing glass
- White PVC frame
- Frame made from multiple chamber PVC profile
- Skylights frame adopted for internal blinds installation
- 360° turn-around installation

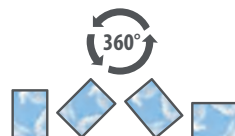


Flange-free glass installation to provide free water flow off the glass.

Technical specification	NEW FXC G32
Glazing	toughened/toughened
Skylight U-value	1.5W/m ² K
Skylight R-value incl. frame	0.67 m ² K/W

FXC

size [mm]	851x1257	952x952
internal dimensions [mm]	775x1181	876x876
effective glazing area [m ²]	0.74	0.61



ACCESSORIES

Roof window accessories combine functionality and utilise features with an attractive decorative form. FAKRO accessories make it possible to control the action of light, reducing heat excess in the summer and save energy in winter. A wide range of types, patterns and colours of accessories ensures that the window matches with any interior décor and offers the possibility of shaping the style of any room.





FOR ROOF WINDOWS

FOR SKYLIGHTS

INTERNAL ACCESSORIES



roller blinds **ARS**

- fine adjustment of incoming light
- three different positions
- provides privacy
- effective protection from the sun
- elegant aluminium fascia covering the roller



blackout blinds **ARF**

- very good protection from sunlight
- the possibility of darkening the room
- possibility to lock the blind in any position
- provides privacy
- partial protection from solar heat
- intended for roof windows



blackout blinds **SRF**

- gradual reduction of incoming sunlight up to blackout
- protection against UV radiation
- possibility to lock the blind in any position
- suitable for cleaning
- provides complete privacy
- intended for skylights

Colours subject to stock and availability at time of order.

ZST TELESCOPIC ROD

The ZST Telescopic Rod enables the user to operate ARF, SRF, ARS blinds on windows in out-of-reach positions. It also enables easy opening and closing of windows. Standard rod length is 1190 mm, which can be extended to 1340, 1620, 1900 and 2180 mm.



ZST – operation of ARF, SRF blind



ZST – opening of the window



ZST – operation of ARS blind



ATTIC STAIRS



OTHER FAKRO PRODUCTS

ATTIC STAIRS

Declutter your home and utilise unused attic space. The stairs are simple to operate; simply unlock the flush insulated hatch and guide the stairs to the ground. There are various sizes and models available for easy installation into new or existing homes.

LMK



Metal Attic Stairs

LMK 700x1300
Maximum ceiling
height 3050mm

Deluxe

LWK



Wooden Attic Stairs

LWK 600x1300
Maximum ceiling
height 2800mm or
LWK 600x1400
Maximum ceiling
height 3250mm

LWS



Wooden Attic Stairs

LWS 600x1300
Maximum ceiling
height 2800mm



stile ends



white hatch



peripheral seal



handrail



non-slip treads



possibility of installing
additional accessories



stile ends



white hatch



peripheral seal



handrail



treads set flush
with ladder strings



possibility of installing
additional accessories



beige hatch



peripheral seal



treads set flush
with ladder strings



possibility of installing
additional accessories



 **FAKRO®**



BRANZ Appraised
Approval No. 749 (2011)


hometech™
Better spaces. Better lives.

www.hometech.co.nz
contact HomeTech on 0800 466 383
sales@hometech.co.nz