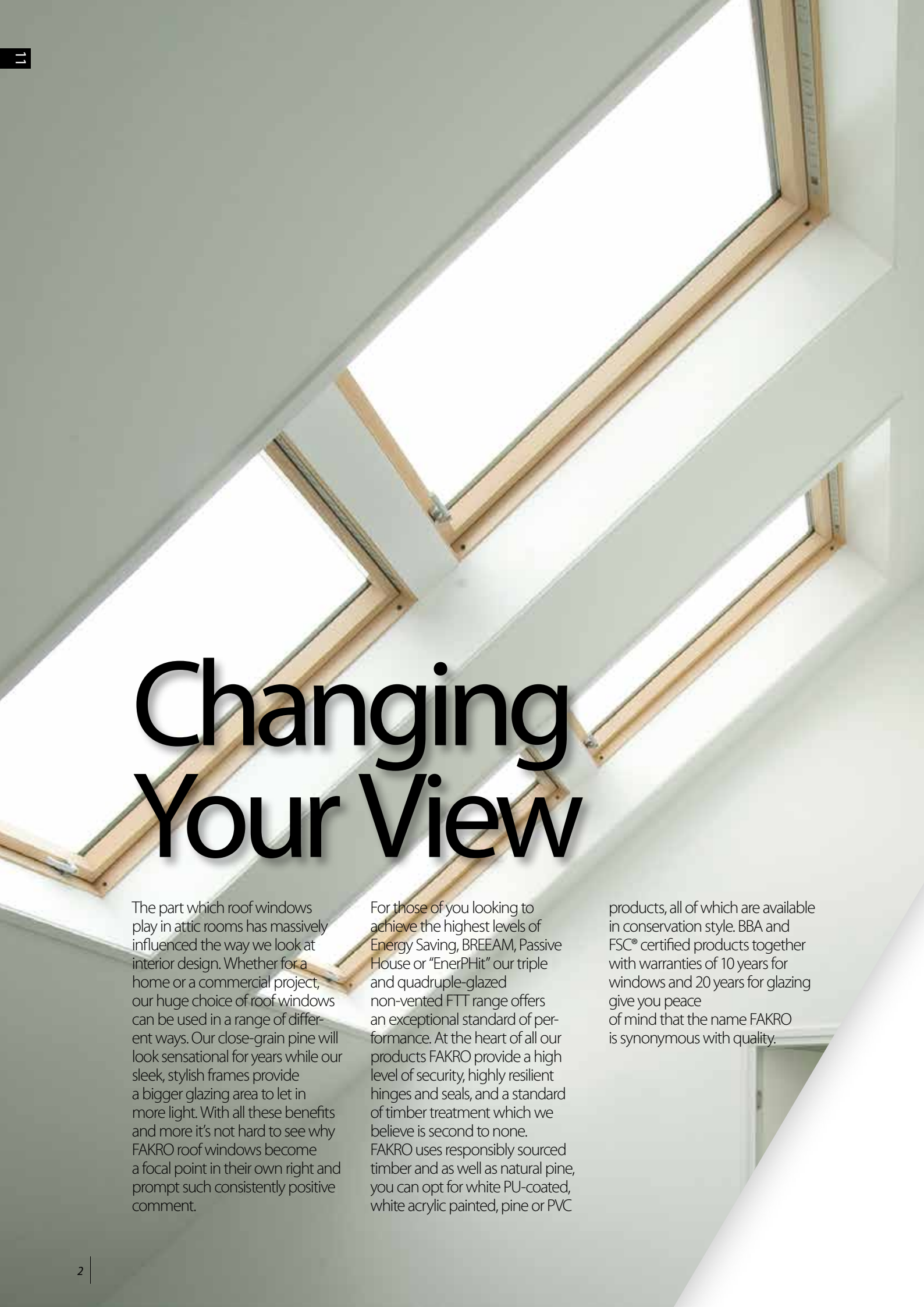
FAKRO®

ROOF WINDOWS

PRODUCT SELECTOR AND PRICE LIST

APRIL **2017**



Changing Your View

The part which roof windows play in attic rooms has massively influenced the way we look at interior design. Whether for a home or a commercial project, our huge choice of roof windows can be used in a range of different ways. Our close-grain pine will look sensational for years while our sleek, stylish frames provide a bigger glazing area to let in more light. With all these benefits and more it's not hard to see why FAKRO roof windows become a focal point in their own right and prompt such consistently positive comment.

For those of you looking to achieve the highest levels of Energy Saving, BREEAM, Passive House or "EnerPHit" our triple and quadruple-glazed non-vented FTT range offers an exceptional standard of performance. At the heart of all our products FAKRO provide a high level of security, highly resilient hinges and seals, and a standard of timber treatment which we believe is second to none. FAKRO uses responsibly sourced timber and as well as natural pine, you can opt for white PU-coated, white acrylic painted, pine or PVC products, all of which are available in conservation style. BBA and FSC® certified products together with warranties of 10 years for windows and 20 years for glazing give you peace of mind that the name FAKRO is synonymous with quality.

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What makes a FAKRO roof window **better?**

FAKRO roof windows are designed to provide a focal point for any room whether you use them individually or in combinations. Their stylish appearance is matched by the highest standard of manufacturing and finishing which means you can rest assured they will go on looking good for years to come. Our windows offer a perfect combination of style, sustainability, security and long design life. To achieve such high performance involves ongoing refinement and improvement to every roof window that we design.

1

Ample natural light

The design of FAKRO roof windows provides appropriate illumination of the room within the loft space. Specially shaped profiles of the frame and sash as well as an air inlet location in the upper part of the frame allows for the influx of high quantities of natural light.

2

Timber quality

The pine we use offers the clearest visual evidence of our roof window quality. Not only does its close grain look stylish, we obtain timber from FSC® certified sources. Our double vacuum process using water-borne preservatives provides lasting dimensional stability and all windows are finished with two coats of environmentally friendly lacquer. Compare this with another leading manufacturer which states - "The timber has received basic treatment and a finished coating at the factory. It must receive further treatment at least every four years and whenever required. Windows exposed to strong heat, strong sunlight and/or high levels of humidity (e.g. in kitchens or bathrooms) must however receive treatment at least every two years". We therefore actively encourage customers to compare our window finishing with that of other manufacturers.

3

Windows for bathrooms, wetrooms and kitchens

FAKRO offers two types of roof window for rooms in which high levels of humidity are created. You have the choice of either white polyurethane-coated pine or PVC in white, golden oak and pine finishes. So, whether you want to match existing windows and doors or have a smooth timber finish in white, FAKRO has the perfect solution. FAKRO PVC veneers also achieve the highest level of measurable performance - Class A - EN12608.

4

Automatic air ventilation in all windows

Many manufacturers use a standard manually operated vent which is inefficient , causing unnecessary heat loss. The FAKRO V40P automatic vent which is installed in FAKRO pine roof windows is activated by changes in atmospheric pressure. It provides the optimum balance of fresh air regardless of weather conditions.

5

Exceptional security

FAKRO's TopSafe® system provides peace of mind that our roof windows offer exceptional burglary resistance. In contrast to products which break simply by applying foot pressure, TopSafe provides additional hinge and lock reinforcement to prevent the sash from being forced. A European Standard (EN13049) now means you can compare roof window security and all FAKRO products achieve a minimum of Class 3. FAKRO also manufactures a standard centre pivot window, the FTP-V P2 Secure, which has security glazing.

6

The highest level of energy saving performance

What really sets FAKRO windows apart is their low level of heat loss. Unlike some manufacturers who provide U-values just for glazing units, FAKRO provides information for the whole window. When comparing our performance with other products you will see how our non-vented, quadruple glazed FTT U8 Thermo, with a single glazing unit area a U-value of 0.58 W/m^{2}K, leads the market. Our standard FTP-V centre pivot windows also offer a level of performance which competing windows invariably fail to match.

7

Warm glazing spacers

Many roof windows use metallic spacers to separate panes and these can encourage condensation to form by forming a cold 'bridge' between them. By contrast, FAKRO uses only warm spacers in order to ensure that this otherwise common problem does not affect our products.

8

Ease of installation

Our easy to use "bracket fix" installation system enables windows to be fitted either to rafters or battens. Windows can also be fitted onto sarking.

9

Performance Guarantees

Whether buying natural pine, PU-coated pine or PVC FAKRO offers a 10-year warranty for all windows and a 20 year warranty on glazing units. We also offer a no quibble lifetime warranty against damage by hail stones.

10 year **warranty** for window

20 year **warranty** for glazing unit

Lifetime glazing unit hail resistance warranty

10

We don't just do white.

FAKRO roof windows can be manufactured in any colour from the RAL classic palette. That's over 200 colours customers can specify to special order for their chosen projects. Our standard natural pine, white or pine PVC and white PU coated roof windows from stock in just 3 days.

PLEASE NOTE: THE STANDARD COLOUR FOR THE EXTERNAL PROFILES OF FAKRO ROOF WINDOWS IS UMBER GREY/BROWN RAL 7022. OTHER COLOURS ARE PRICED ON REQUEST.

Certificates

One of the key factors differentiating manufacturers from one another is certification of products. At FAKRO we continually look for ways to innovate and improve our designs, not just with new roof windows but existing ones. In 2012 this yet again enabled us to set an industry standard as we achieved Passive House certification of our industry leading quadruple-glazed FTT U8 Thermo. The FTT U8 offers an amazing U-value of 0.58 W/m^{2}K and provides the ideal solution for airtight designs.

NBS Plus - FAKRO specification clauses are available via NBS Plus. This enables concise, technically accurate and up-to-date information in relation to our extensive range of roof windows and roofing accessories to be copied and pasted.

In the same way, we led the market by becoming the first roof window manufacturer to secure BBA certification - as long ago as 2002. Today, many more of our products are accredited including our popular ranges of centre pivot, top hung and pivot and side hung windows.
This includes products in conservation style and the highly thermally efficient FTT U6 triple-glazed window while, for specifiers and buyers in Ireland we also have Irish Agrément Board (IAB) certification.

The NHBC accepts the use of Fakro Roof Windows, when installed and used in accordance with BBA certificates in relation to NHBC Standards.

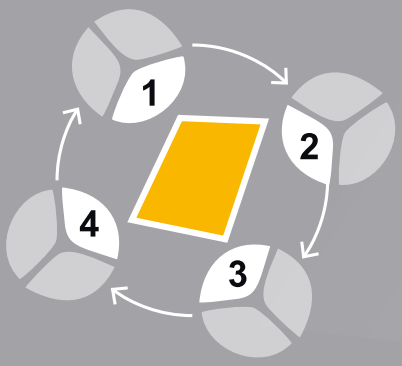
Our roof windows offer scope for you to buy or specify products using timber from sustainable sources; indeed we are the only such manufacturer to offer FSC® certification for the higher quality, close-grain pine which we use. We also design all windows to be stripped down for recycling of all parts which, combined with the use of sustainable timber, shows the extent of our commitment to environmental issues.

TÜV SÜD accreditation is currently less well known in the UK but in 2011 UKAS appointed it as a Notified Organisation for construction products. TÜV SÜD partners manufacturers of all kinds of building materials to ensure that quality, safety and environmental sustainability requirements are met. By securing accreditation, FAKRO has once again been among the first to confirm its commitment to key quality standards.

CE marking provides a passport that enables a construction product, irrespective of its origin, to be legally placed on the market of all EU member states. Unlike some manufacturers, FAKRO declares full details of performance for all points which make up a CE mark, yet more evidence that our products exceed minimum standards for health, safety and economy of energy.

NEW DIMENSION OF INNOVATION thermoPro Technology

PROFI and LUX class roof windows are manufactured using **thermoPro** technology. The solutions introduced ensure improved quality and parameters of windows. **ThermoPro** technology increases energy-efficiency performance, provides greater durability, ensures excellent tightness and facilitates the installation process of roof windows.



1

BETTER
THERMAL INSULATION OF WINDOWS

- Reduced heat loss and lower heating bills
- New version of low emission coating on the glass
- Introduction of insulation inserts in the bottom corners of the sash aimed at enhancing window's energy-efficiency performance

4

GREATER WINDOW TIGHTNESS
IN TERMS OF AIR PERMEABILITY

Windows manufactured using **thermoPro** technology feature 3rd and 4th tightness class according to EN12207, thus reducing the amount of air penetrating into the room. It is particularly important for mechanical ventilation.

2

GREATER WOOD DURABILITY

THANKS TO WATER DRAINAGE CHANNELS

Special water drainage channels are introduced in the lower corners of the frame to discharge water from condensation and potential leakage caused by, e.g. damaged external aluminium profiles. Wooden profiles are less exposed to the moisture, which adds to their durability.

3

EASIER

INSTALLATION

GREATER COMFORT OF WORK

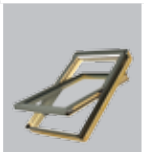
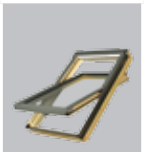
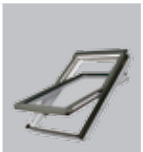
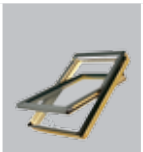
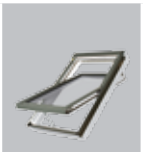
New brackets facilitate installation work and increase the ability to adjust roof windows during their installation. In addition, the use of **Torx screws** streamlines installation process of roof windows.

Centre pivot roof windows are still the most popular design, with a wide variety of options including highly energy-efficient windows suited to airtight construction, burglar–resistant windows (particularly suited to low pitch roofs and multi-occupancy buildings). All can be rotated through 180° to clean the outer pane from within the room. A choice of natural pine, white PU-coated pine and PVC is available.

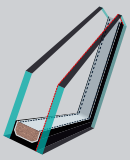
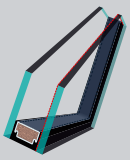
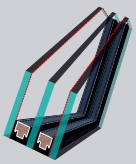
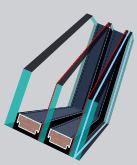
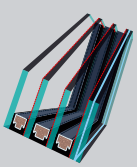
Top hung and pivot dual function roof windows provides total flexibility of use. When open, the top hung function provides an unrestricted field of view at a lower height than a centre pivot window while centre pivot operation enables the sash to be rotated through 180° to clean the outer pane from within the room. A choice of natural pine, white PU-coated pine, white acrylic and PVC is available.

High pivot roof windows function in the same way as a centre pivot window but with the axis of rotation slightly higher in the frame to enable even taller people to walk up to the open window. This enables a greater glazing height to be achieved without adding to the window's width. With scope also to choose a twin sash window in a single frame (the FDY-V proSky Duet window) , this can extend up to 2.35 metres.

STANDARD ROOF WINDOWS

ROOF WINDOWS									
type	CENTRE PIVOT								
symbol:	FTP-V U3	FTP-V P2	FTU-V P2 FTW-V P2	PTP-V P2	PTP-V Z-WAVE	FTP-V P2 Z-Wave	FTU-V P2 FTW-V P2 Z-Wave	FTT U6	FTT U8 Thermo
view									
material	wood	wood	wood (white)	PVC	PVC	wood	wood	wood	wood
air inlet	V40P	V40P	V40P	V35	V35	V40P	V40P	non-vented	non-vented
air inlet air flow	up to 49 m^3/h	up to 49 m^3/h	up to 49 m^3/h	up to 41 m^3/h	—	up to 49 m^3/h	up to 49 m^3/h	—	—
glazing	double	double	double	double	double	double	double	triple	qadruple
Ug (wg EN 673)	1.0 W/m^2K	1.0 W/m^2K	1.0 W/m^2K	1.0 W/m^2K	1.0 W/m^2K	1.0 W/m^2K	1.0 W/m^2K	0.5 W/m^2K	0.3 W/m^2K
Uw	1.2 W/m^2K	1.2 W/m^2K	1.2 W/m^2K	1.3 W/m^2K	1.3 W/m^2K	1.2 W/m^2K	1.2 W/m^2K	0.8 W/m^2K	0.58 W/m^2K
acoustic insulation	32dB	35dB	33dB	35 dB	33 dB	32dB	32dB	38dB	36dB
seals	4	4	4	4	4	4	4	5	5
installation pitch	15-90°	15-90°	15-90°	15-90°	15-90°	15-90°	15-90°	15-70°	15-70°

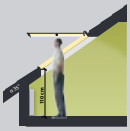
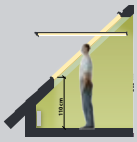
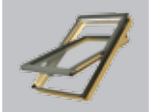
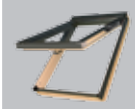
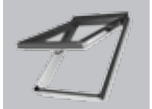
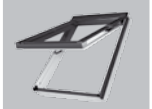
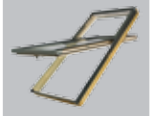
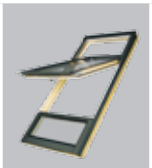
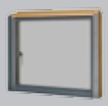
GLAZING UNIT

					
GLAZING UNIT	U3	P2	P5	U6	U8
TECHNICAL SPECIFICATION	ENERGY SAVING	ANTI BURGLARY	SAFE	HIGHLY ENERGY EFFICIENT	PASSIVE GLAZING
GLAZING	DOUBLE	DOUBLE	TRIPLE	TRIPLE	QUADRUPLE
INNER LAMINATED GLASS		(Class P2A)	(Class P2A)	(Class P2A)	

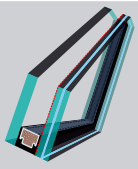
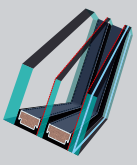
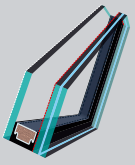
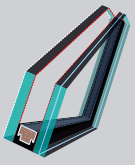
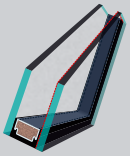
The Balcony window is the ultimate, modern twin sash window. With the top sash opening as a top hung window, the bottom sash with laminated internal glazing opens from the bottom to reveal built-in balustrades.

L-shaped windows provide scope to take any of Fakro's standard roof windows into a vertical wall. This gives a much extended field of view and a bigger glazing area which maximises the use of natural daylight.

Conservation roof windows are designed to meet planning requirements in conservation areas or for the sensitive development of older buildings. In addition to all our standard windows being available in conservation style, bespoke commissions are routinely undertaken.

	TOP HUNG AND PIVOT WINDOWS			HIGH PIVOT		BALCONY	L-SHAPED	SIDE HUNG
								
FTP-V P2 Secure	FPP-V P2 preSelect	FPU-V P2 preSelect	PPP-V P2 preSelect	FYP-V P2 proSky	FDY-V P2 Duet proSky	FGH-V P2 Galeria	BDL P2 BDR P2 BVP P2	FWR P2 FWL P2
								
wood	wood	wood (white)	PVC	wood	wood	wood	wood	wood
V40P	V40P	V40P	V35	V40P	V40P	V40P	non-vented	non-vented
up to 49 m^3/h	up to 49 m^3/h	up to 49 m^3/h	up to 41 m^3/h	up to 49 m^3/h	up to 28 m^3/h	up to 28 m^3/h	—	—
double	double	double	double	double	double	double	double	double
1.0 W/m^2K	1.0 W/m^2K	1.0 W/m^2K	1.0 W/m^2K	1.0 W/m^2K	1.1 W/m^2K	1.1 W/m^2K	1.1 W/m^2K	1.1 W/m^2K
1.2 W/m^2K	1.2 W/m^2K	1.2 W/m^2K	1.3 W/m^2K	1.3 W/m^2K	1.3 W/m^2K	1.5 W/m^2K	1.3 W/m^2K	1.4 W/m^2K
35 dB	35dB	35dB	33dB	35 dB	35 dB	35dB	37 dB	NPD
4	4	4	4	4	4	4	2	2
15-90°	15-55° (85°)	15-55° (85°)	15-55° (85°)	20-65°	25-65°	35-55°	roof window15-55°	15-55°

A NON-VENTED OPTION CAN ALSO BE ORDERED FOR ALL WINDOWS

				
R1	R3	P2	G6	02
SOUND REDUCING	SOUND REDUCING	ANTI-BURGLARY	SOLAR CONTROL	OBSCURE
DOUBLE	TRIPLE	DOUBLE	DOUBLE	DOUBLE
(Class P2A)	(Class P2A)	(Class P2A)	✓	

10 TIPS HOW TO SELECT A ROOF WINDOW

1

HOW **WILL** YOU MAKE A HOME?

- Choose the correct type of window to suit your environment.
- Classic centre pivot windows make the windows easy to clean as the sash will swivel to allow cleaning of the outside on the inside!
- Top hung and pivot windows give an unrestricted view at a lower height than a standard centre pivot window.

2

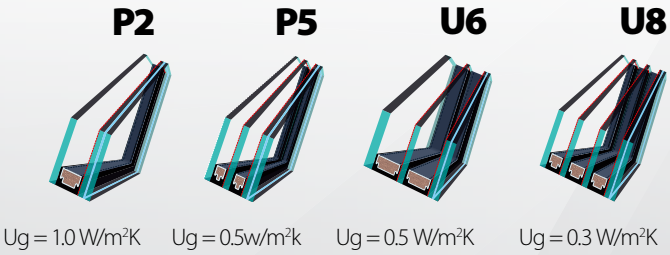
HOW MUCH **DAYLIGHT** DO YOU NEED?

- The higher from the floor a roof window is fitted will provide optimal illumination of the room.
- The German standard DIN 5034-1, 4.2.2a states "the upper edge of the window (or windows) transparent surface shall be positioned at least 220cm from the floor level".

3

WHICH **GLAZING** UNIT TO CHOOSE?

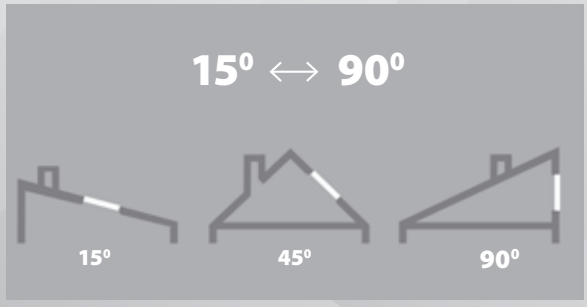
- For windows above head height you should use a laminated glass. If the glass shatters a plastic membrane between the two sheets of glass retain the shards.
- Energy efficient triple-glazed units ensure exceptional thermal efficiency and can almost eliminate heat loss altogether.
- Other glazing choices include; tinted, obscure, reflective and self-cleaning glass.



4

WHAT IS YOUR ROOF **PITCH?**

- Most roof 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.
- For flat roofs you can choose between standard domed or non-domed designs.
- To ensure the flow of water from the glass surface of non-domed windows, the window should be installed with a pitch of at least 2 degrees.



5

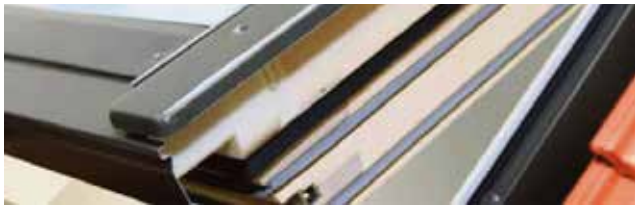
CORRECT CHOICE OF **FLASHING**

- Enables roof windows to be installed with any type of roof covering
- Can be fitted at 3 key depths:
  - Standard depth and ideal for tiles such as the Double Roman
  - 3cm higher than the standard depth, for high profile tiles such as the Bold Roll
  - 3cm deeper than the standard depth, for where a recessed style is required.
- Ideal for conservation roof windows which invariably need to sit low within the roof line.

6

SUPER SAVINGS WITH HIGHLY
ENERGY-EFFICIENT WINDOWS

- A well-insulated roof can be let down by a poorly insulated window which will cause heat loss.
- Standard double glazed windows with a thermally insulated glazing unit and flashing may suffice.
- For increased performance you should consider a highly energy-efficient roof window specially designed and supplied with insulating flashing.



7

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

- Wooden windows can look very attractive but there is a degree of maintenance required to retain their ultimate appearance, one solution is to specify windows that have a double coat of white polyurethane.
- PVC profile windows with steel reinforcement are a practical solution for bathrooms and places where regular maintenance is difficult. PVC finishes include White, Golden Oak and Pine.

8

MANUAL OR **ELECTRIC** CONTROL?

- Wireless technology is available to operate your roof windows.
- Z-Wave is a wireless protocol for communication between household appliances. It combines into a single network electric devices such as: lighting, thermostats, alarms, computers, telephones, air conditioning, electric windows and blinds.

9

ENHANCED ANTI-BURGLARY **RESISTANCE**?

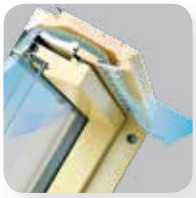
- Easily accessible roof windows, especially when the garage is adjacent to the house, should be protected from burglary.
- You should always fit reinforced windows with toughened external glass in these situations.
- The FAKRO TopSafe system provides the ultimate in safety and helps prevent break-ins.

10

HOW TO PROTECT AGAINST HEAT
AND **SUNLIGHT**?

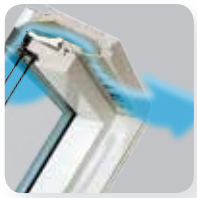
- Contemporary awning blinds can be up to eight times more efficient than internal blinds in terms of passive heat reduction while still allowing light through.
- As well as heat absorption, solar powered awnings open automatically in cloudy weather to increase the available light. In winter they reduce noise from rain and hail and protect the window from an accumulation of snow and leaves.

FTP-V
FTW-V
FTU-V



FTP-V

- High quality close-grain vacuum
- impregnated pine guaranteed to be knot-free
- Suitable for any room



FTW-V

- High quality close-grain vacuum
- impregnated pine guaranteed to be knot-free, finished with white acrylic paint. Range ofRAL colours to special order.
- Suitable for any room

CENTRE PIVOT WINDOW - POPULAR OPTIONS IN WHITE & NATURAL PINE

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	0.75
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
WHITE																
FTW-V P2 (White Acrylic)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£228	£241	£252	£255	£280	£262	£296	£328	£395	£358	£383	£393	£415	£377	£403
FTU-V P2 (White PU Coated Pine)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£274	£289	£302	£307	£336	£314	£355	£393	£465	£410	£459	£472	£495	£453	£484
NATURAL PINE																
FTP-V U3	U3 - Energy saving double glazed unit. Toughened outer pane. U value of window 1.2	£216	£228	£238	£240	£266	£248	£280	£310	£372	£335	£362	£372	£390	£358	£382
FTP-V P2	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£219	£231	£241	£245	£269	£252	£284	£314	£380	£345	£367	£377	£400	£362	£387
OTHER GLAZING OPTIONS																
FTU-V O2 (White PU Coated Pine)	O2 - Obscure double glazed unit. U value of window 1.2	£314	£329	£342	£357	£376	£354	£395	£433	£520	£480	£499	£512	£540	£493	£524
FTP-V O2	O2 - Obscure double glazed unit. U value of window 1.2	£280	£294	£308	£310	£333	£324	£361	£393	£477	£431	£453	£464	£506	£460	£510
FTP R1	R1 - Sound reducing glazed unit, Rw 39 dB	£282	£300	£320	£325	£352	£334	£366	£420	£490	£435	£476	£486	£500	£472	POA
FTU-V P5 (white PU coated)	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£424	£439	£452	£462	£486	£464	£505	£543	N/A	£590	£609	£622	£710	£603	POA

ALL WINDOWS AVAILABLE VENTED OR NON-VENTED (P RICE ON APPLICATION)
PLEASE CHOOSE THE FLASHING KIT TO MATCH YOUR ROOF COVERING

FLASHINGS
QUICK REF page 75
IN DETAIL pages 61-62

ACCESSORIES
pages 64-66

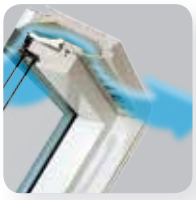
Head ventilator - can be controlled without the need to operate the window opening handle.

- Traditional centre pivot operation
- Windows turn through 180° to clean outer pane within the room
- Operating handle in the base of the sash for ease of use
- V40P automatic air vent to prevent unnecessary heat loss
- Topsafe® system of burglary protection as standard
- Suitable for retro-fitting of electronic operation
- Suitable for pitches from 15-90°
- Available in conservation style

FTU-V
FTW-V

FTU-V

- High quality, close grain vacuum impregnated pine with a triple coating of white polyurethane for a smooth, wipe clean finish
- Ideal for bathrooms, wetrooms, kitchens and environments with increased humidity



FTW-V

- High quality close-grain vacuum - impregnated pine guaranteed to be knot-free, finished with white acrylic paint. Range of RAL colours to special order.
- Suitable for any room

CENTRE PIVOT WINDOW – WHITE ACRYLIC/WHITE PU-COATED PINE

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	0.75
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
FTU-V P2 **Rw 35 dB**	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£274	£289	£302	£307	£336	£314	£355	£393	£465	£410	£459	£472	£495	£453	£484
FTU-V P5 **Rw 35 dB**	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£424	£439	£452	£462	£486	£464	£505	£543	N/A	£590	£609	£622	£710	£603	POA
FTU-V O2	O2 - Obscure double glazed unit. U value of window 1.2	£314	£329	£342	£357	£376	£354	£395	£433	£520	£480	£499	£512	£540	£493	£524
FTU-V P2 Secure **Rw 35 dB**	P2 Secure Anti- burglary double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£404	£418	£472	£472	£492	£478	£512	£546	£630	£576	£594	£645	£680	£630	£664
FTW-V P2 **Rw 35 dB**	P2 Secure Anti- burglary double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£228	£241	£252	£255	£280	£262	£296	£328	£395	£358	£383	£393	£415	£377	£403
FTW-V P5	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£378	£391	£402	£412	£430	£412	£446	£478	N/A	£508	£533	£543	£595	£527	POA

ALL WINDOWS AVAILABLE VENTED OR NON-VENTED (PRICE ON APPLICATION).
PLEASE CHOOSE THE FLASHING KIT TO MATCH YOUR ROOF COVERING

FLASHINGS
QUICK REF page 75
IN DETAIL pages 61-63

ACCESSORIES
pages 64-66

- Traditional centre pivot operation
- Windows turn through 180° to clean outer pane within the room
- Operating handle in the base of the sash for ease of use
- V40P automatic air vent to prevent unnecessary heat loss
- Topsafe® system of burglary protection as standard
- Suitable for retro-fitting of electronic operation
- Suitable for pitches from 15-90°
- Available in conservation style

PTP-V
PTP

PTP-V

- V35 air inlet
- Suitable for every room including bathrooms and wet rooms

PTP

- Non Vented
- Suitable for every room including bathrooms and wet rooms

CENTRE PIVOT WINDOWS – PVC

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	0.75
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
PTP-V P2 **Rw 33 dB**	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£228	£241	£252	£255	£280	£262	£296	£328	£395	£358	£383	£393	£415	£377	£402
PTP P2 **Rw 36 dB**	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£228	£241	£252	£255	£280	£262	£296	£328	£395	£358	£383	£393	£415	£377	£403
PTP O2 **Rw 36 dB**	O2 - Obscure double glazed unit. U value of window 1.3	£282	£300	£305	£315	£326	£326	£358	£410	£470	£415	£435	£465	£500	£465	£555
PTP-V O2 **Rw 33 dB**	O2 - Obscure double glazed unit. U value of window 1.3	£282	£300	£305	£315	£326	£326	£358	£410	£470	£415	£435	£465	£500	£465	£555
PTP-V P5 **Rw 36 dB**	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.1	£484	£520	£539	£539	£580	£580	£625	POA	POA	POA	-	-	-	-	-

ALL WINDOWS AVAILABLE VENTED OR NON-VENTED (PRICE ON APPLICATION)
PLEASE CHOOSE THE FLASHING KIT TO MATCH YOUR ROOF COVERING

FLASHINGS
QUICK REF page 75
IN DETAIL pages 61-63

ACCESSORIES
pages 64-66

- Traditional centre pivot operation. Ideal for bathrooms, wetrooms, kitchens and environments with increased humidity
- Windows turn through 180° to clean outer pane from within the room
- Operating handle in the base of the sash for ease of use
- Topsafe® system of burglary protection as standard
- PVC profile with steel reinforcement for a smooth, wipe clean finish. Available in White, Golden Oak or Natural Pine veneer finishes
- Suitable for pitches from 15° - 90°
- Available in conservation style

Electric Z-Wave Controlled Windows

FTP-V Z-Wave

- High quality, close-grain vacuum impregnated pine in a natural finish

FTU-V Z-Wave

- High quality, close-grain vacuum impregnated pine with a triple-coating of white polyurethane for a smooth, wipe-clean finish

FTW-V Z-Wave

- High quality close-grain vacuum - impregnated pine guaranteed to be knot-free, finished with white acrylic paint. Range of RAL colours to special order.
- Suitable for any room

WINDOWS WITH ELECTRIC Z WAVE CONTROL NATURAL PINE / WHITE PU-COATED PINE / PVC

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m^2]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	0.75
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
FTP-V P2 Z-Wave	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£519	£531	£541	£554	£569	£552	£584	£614	£720	£650	£667	£677	£730	£662	£687
FTW-V P2 Z-Wave	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£528	£541	£552	£564	£580	£562	£594	£628	£735	£664	£683	£693	£745	£677	£703
FTU-V P2 Z-Wave	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£574	£589	£602	£609	£636	£614	£655	£693	£810	£750	£759	£772	£810	£753	£784
PTP-V P2 Z-Wave	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA
FTP-V P5 Z-Wave	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£670	£682	£692	£700	£720	£702	£734	£766	POA	£800	POA	POA	POA	POA	-
FTW-V P5 Z-Wave	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£678	£691	£702	£710	£730	£712	£746	£778	POA	£812	POA	POA	POA	POA	-
FTU-V P5 Z-Wave	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£724	£739	£752	£756	£786	£764	£805	£843	POA	£890	POA	POA	POA	POA	-
PTP-V P5 Z-Wave	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.1	POA	POA	POA	POA	POA	POA	POA	POA	POA	POA	-	-	-	-	-

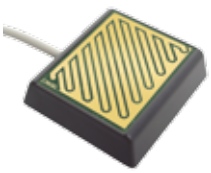
ALL WINDOWS AVAILABLE VENTED OR NON-VENTED (PRICE ON APPLICATION)
PLEASE CHOOSE THE FLASHING KIT TO MATCH YOUR ROOF COVERING

FLASHINGS
QUICK REF page 75
IN DETAIL pages 61-63

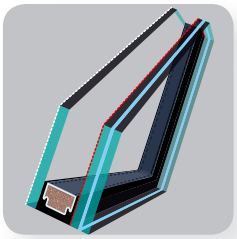
ACCESSORIES
pages 64-66

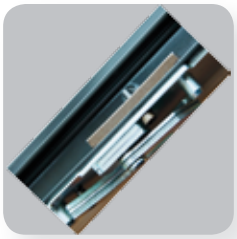
- Traditional centre pivot operation complete with Z-Wave system. Z-Wave uses low power radio waves to operate a range of devices including lighting, air conditioning and roof windows. Electrical accessories such as blackout, roller and Venetian blinds as well as external roller shutters can be operated with ease.

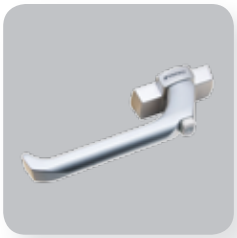
- Windows turn through 180° to clean outer pane from within the room
- V40P automatic air vent to prevent unnecessary heat loss
- Topsafe® system of burglary protection as standard
- Suitable for pitches from 15° - 90°
- Available in conservation style



FTP-V P2 Secure
FTW-V P2 Secure
FTU-V P2 Secure







FTP-V Secure

- Laminated and anti-burglary interior glass Class P2A
- Protection against window impact, levering and glazing removal
- Handle with lock

- **The FTP-V P2 Secure window is compliant with European anti-burglary 2 class RC 2 N as per EN 1627.**

ANTI-BURGLARY CENTRE PIVOT WINDOW - SECURE IN WHITE & PINE

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	0.75
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
FTP-V P2 Secure (Natural Pine)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	**£352**	**£364**	**£383**	**£390**	**£404**	**£388**	**£420**	**£448**	**£550**	**£480**	**£512**	**£522**	**£560**	**£506**	**£536**
FTW-V P2 Secure (White Acrylic)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	**£352**	**£364**	**£383**	**£390**	**£404**	**£388**	**£420**	**£448**	**£550**	**£480**	**£512**	**£522**	**£560**	**£506**	**£536**
FTU-V P2 Secure (White PU Coated Pine)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	**£404**	**£418**	**£472**	**£472**	**£492**	**£478**	**£512**	**£546**	**£630**	**£576**	**£594**	**£645**	**£680**	**£630**	**£664**

ALL WINDOWS AVAILABLE VENTED OR NON-VENTED (PRICE ON APPLICATION).
FTP-V P2 IS CERTIFIED TO EN 1627 CLASS 2.
PLEASE CHOOSE THE FLASHING KIT TO MATCH YOUR ROOF COVERING

FLASHINGS
QUICK REF page 75
IN DETAIL pages 61-63

- Traditional centre pivot operation.
- Combination of topSafe hinge and lock reinforcement, Class P2A laminated anti-burglary glazing, system preventing glass removal and safety lock
- Windows turn through 180° to clean outer pane from within the room
- Operating handle in the base of the sash for ease of use
- V40P automatic air vent to prevent unnecessary heat loss
- Topsafe® system of burglary protection as standard
- High quality close-grain vacuum impregnated pine guaranteed to be knot-free
- Suitable for pitches from 15° - 90°
- Available in conservation style

FTT U8 thermo
FTT U6
FTT R3

FTT U8 Thermo

- **Quadruple glazed and fivefold seal airtight construction**
- **Supplied complete with thermal flashing and XDK insulation kit**

FTT U6

- Triple glazed and fivefold seals

FTT R3

- Triple glazed and fivefold seals
- Sound reduction glazing unit (Rw =42dB)

HIGHLY ENERGY - EFFICIENT ROOF WINDOWS

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	0.75
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
FTT U8 Thermo	U8 - Passive quadruple glazed unit. U value of window 0.58*	N/A	£865	£908	£920	£965	£972	£1 080	£1 195	£1 390	£1 245	£1 282	£1 295	£1 455	£1 320	£1 575
FTT U6	U6 - High energy efficient triple glazed unit. U value of window 0.80	N/A	£504	£526	£526	£558	£558	£632	£698	£811	£730	£751	£755	£852	£772	£922
FTT R3 Rw 42 dB	R3 - Sound reducing triple glazed unit. U value of window 0.81	N/A	£540	£567	£567	£602	£599	£678	£753	£875	£790	£810	£816	£922	£832	£996
FTT/U U8 Thermo	U8 - Passive quadruple glazed unit. U value of win dow 0.58*	N/A	£935	£987	£992	£1 047	£1 052	£1 172	£1 296	£1 500	£1 352	£1 396	£1 410	£1 575	£1 430	£1 704
FTT/U U6	U6 - High energy efficient triple glazed unit. U value of window 0.80	N/A	£553	£578	£578	£612	£612	£694	£766	£891	£802	£825	£830	£938	£848	£1 014
FTT/U R3	R3 - Sound reducing triple glazed unit. U value of window 0.81	N/A	£595	£623	£623	£662	£658	£746	£828	£962	£868	£892	£898	£1 014	£915	£1 096
FTT/W U8 Thermo	U8 - Passive quadruple glazed unit. U value of window 0.58*	N/A	£900	£945	£956	£1 004	£1 010	£1 124	£1 242	£1 446	£1 295	£1 334	£1 346	£1 514	£1 372	£1 638
FTT/W U6	U6 - High energy efficient triple glazed unit. U value of window 0.80	N/A	£504	£526	£526	£558	£558	£632	£698	£811	£730	£751	£755	£852	£772	£922
FTT/W R3	R3 - Sound reducing triple glazed unit. U value of window 0.81	N/A	£540	£567	£567	£602	£599	£678	£753	£875	£790	£810	£816	£922	£832	£996

TRIPLE GLAZED AND FIVE SEALS FOR AIR TIGHT CONSTRUCTION
*WINDOW U VALUE WHEN INSTALLED WITH THERMAL FLASHING
FTT U8 INCLUDES THE CHOSEN FLASHING KIT AND XDK INSUALTION KIT.
PLEASE CHOOSE THE FLASHING KIT TO MATCH YOUR ROOF COVERING

FLASHINGS
QUICK REF page 75
IN DETAIL pages 61-63

ACCESSORIES
pages 64-66

AIR-TIGHT · 180° · TOPSAFE · 15-70° · 10 year warranty for window · 20 year warranty for glazing unit · Lifetime glazing unit hail resistance warranty

- Traditional pivot operation with raised axis to enable even tall people to stand in an open window. Counterbalanced pivot mechanism
- Ideal for airtight construction
- Windows turn through 180° to clean outer pane from within the room
- Operating handle in base of the sash for ease of user
- Topsafe® system of burglary protection as standard
- High quality close grain vacuum impregnated pine guaranteed to be knot free
- Suitable for pitches from 15° - 70°
- Available in conservation style

ALL PRICES EXCLUDE VAT

FPP preSelect

ROOF WINDOWS THE WINDOW THAT GIVES YOU 2FOR1

FPP-V P2 preSelect

- Topsafe® system of burglary protection as standard
- Energy saving P2 glazing units (U-value of window 1.2 W/m²K)

FPW-V P2 preSelect

- High quality close-grain vacuum - impregnated pine guaranteed to be knot-free, finished with white acrylic paint. Range of RAL colours to special order.
- Suitable for any room

FPU-V P2 preSelect

- High quality, close-grain vacuum impregnated pine with a triple-coating of white polyurethane for a smooth, wipe-clean finish
- Ideal for bathrooms, wet-rooms, kitchens and environments with increased humidity

TOP HUNG AND PIVOT DUAL FUNCTION WINDOWS - UNIQUE 2FOR 1

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	0.75
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
FPP-V P2 (PINE)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	-	£344	£356	£365	£372	£372	£392	£434	£540	£480	£508	£522	£565	£500	£536
FPU-V P2 (WHITE PU)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	-	£390	£400	£418	£440	£411	£465	£514	£625	£520	£601	£617	£650	£620	£633
FPW-V P2 (WHITE ACRYLIC)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	-	£344	£356	£375	£387	£372	£409	£452	£540	£480	£528	£542	£565	£521	£557

ALL WINDOWS AVAILABLE VENTED OR NON-VENTED (PRICE ON APPLICATION).
SIZES: 06 TO 80 MEET FIRE ESCAPE REGULATIONS
PLEASE CHOOSE THE FLASHING KIT TO MATCH YOUR ROOF COVERING

FLASHINGS
QUICK REF page 75
IN DETAIL pages 61-63

Change windows from top hung to centre pivot operation at the flick of a switch

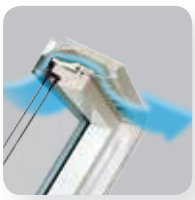
- Change windows from top hung to centre pivot operation at the flick of a switch
- Windows turn through 180° to clean outer pane from within the room
- Operating handle in the base of the sash for ease of use
- V40P automatic air vent to prevent unnecessary heat loss
- Topsafe® system of burglary protection as standard
- High quality close-grain vacuum impregnated pine guaranteed to be knot-free. Range ofRAL colours to special order.
- Suitable for pitches from 15° - 55° (or non-standard option for opening from 15° - 85°)
- Available in conservation style

FPW-V preSelect
FPU-V preSelect

FPU-V P2 preSelect

- Topsafe® system of burglary protection as standard
- Energy saving glazing units including P2 (U-value of window 1.2 W/m²K)

- High quality, close-grain vacuum impregnated pine with a triple-coating of white polyurethane for a smooth, wipe-clean finish
- Ideal for bathrooms, wet-rooms, kitchens and environments with increased humidity



FPW-V P2 preSelect

- High quality close-grain vacuum - impregnated pine guaranteed to be knot-free, finished with white acrylic paint. Range of RAL colours to special order.
- Suitable for any room

TOP HUNG AND PIVOT DUAL FUNCTION WINDOWS WHITE ACRYLIC – WHITE PU - COATED PINE

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m^2]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	0.75
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
FPW-V P2 preSelect (White Acrylic)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	-	£344	£356	£375	£387	£372	£409	£452	£540	£480	£528	£542	£565	£521	£557
FPU-V P2 preSelect	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	-	£390	£400	£418	£440	£411	£465	£514	£625	£520	£601	£617	£650	£620	£633

ALL WINDOWS AVAILABLE VENTED OR NON-VENTED (PRICE ON APPLICATION).
SIZES: 06 TO 80 MEET FIRE ESCAPE REGULATIONS
PLEASE CHOOSE THE FLASHING KIT TO MATCH YOUR ROOF COVERING

FLASHINGS
QUICK REF page 75
IN DETAIL pages 61-63

- Change windows from top hung to centre pivot operation at the flick of a switch
- Windows turn through 180° to clean outer pane from within the room
- Operating handle in the base of the sash for ease of use
- V40P automatic air vent to prevent unnecessary heat loss
- Suitable for pitches from 15° - 55° (or non-standard option for opening from 15° - 85°)
- Available in conservation style

10 year warranty for window
20 year warranty for glazing unit
Lifetime glazing unit hail resistance warranty

PPP-V
preSelect

PPP-V preSelect

- PVC profile with steel reinforcement for a smooth, wipe clean finish
  Available in White, Golden Oak or Natural Pine veneer finishes

- Ideal for bathrooms, wetrooms, kitchens and environments with increased humidity

TOP HUNG AND PIVOT DUAL FUNCTION WINDOWS – PVC

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	0.75
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
PPP-V P2 preSelect	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	-	**£450**	**£455**	**£455**	**£475**	**£475**	**£515**	**£555**	**N/A**	**£570**	**£605**	**£605**	**POA**	**POA**	-

FLASHINGS
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ACCESSORIES
pages 64-66

- Change windows from top hung to centre pivot operation at the flick of a switch
- Windows turn through 180° to clean outer pane from within the room
- Operating handle in the base of the sash for ease of use
- V35 air inlet
- Topsafe® system of burglary protection as standard
- PVC profile with steel reinforcement for a smooth, wipe clean finish. Available in White, Golden Oak or Natural Pine veneer finishes
- Suitable for pitches from 15° - 55° (or non-standard option for opening from 15° - 85°)
- Available in conservation style

BESPOKE offer,
standard windows
will be PINE,WHITE ACRYLIC
or WHITE POLYURETHANE.

FYP-V proSky
FDY-V Duet proSky

FYP-V P2 proSky

- One sash window
- Install at pitches from 20-65°
- V40P automatic air vent to prevent unnecessary heat loss

FDY-V P2 Duet proSky

- Twin sash window in a single frame
- Install at pitches from 25-65°
- V40P automatic air vent to prevent unnecessary heat loss

PYP-V P2

- Twin sash window in a single frame
- Install at pitches from 20-65°
- V35 air inlet

ROOF WINDOWS WITH RAISED AXIS OF ROTATION

WINDOWS WITH RAISED AXIS OF ROTATION

	windows external dimensions [cm]	78x140	78x160	78x180	78x206	94x140	94x160	94x180	94x206
	effective glazing area [m²]	0.73	0.85	0.96	1.12	0.92	1.07	1.22	1.42
	size symbol	07	13	40	42	09	80	41	43
FYP-V P2 proSky Pine	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	**£492**	**£545**	**£596**	**£654**	**£550**	**£616**	**£672**	**£728**
PYP-V P2 proSky PVC	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	**£526**	**£584**	**N/A**	**N/A**	**£588**	**N/A**	**N/A**	**N/A**

WITH LOWER TRANSOM

	windows external dimensions [cm]	78x186	78x206	78x235	94x186	94x206	94x235
	effective glazing area [m²]	0.91	1.12	1.20	1.15	1.30	1.52
	size symbol	CA	CB	CC	DA	DB	DC
FDY-V P2 Duet proSky	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	**£702**	**£766**	**£890**	**£756**	**£826**	**£950**

FLASHINGS
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ACCESSORIES
pages 64-66

10 year warranty for window

20 year warranty for glazing unit

Lifetime glazing unit hail resistance warranty

- Traditional pivot operation with raised axis to enable even tall people to stand in an open window. Counterbalanced pivot mechanism
- Increased window height using traditional widths
- Windows turn through 160° to clean outer pane from within the room
- Operating handle in the base of the sash for ease of use
- Topsafe® system of burglary protection as standard
- High quality close-grain vacuum impregnated pine guaranteed to be knot-free. Range of RAL colours to special order
- Available in conservation style

FGH-V
Galeria

FGH-V Galeria

- The contemporary alternative to a dormer at far lower cost. Twin sash design has a lower element which opens to reveal built-in balustrades and an upper element which opens through 45° as a top hung window
- When closed, balustrades are hidden below the window, the profile of which is undistinguishable from a standard Duet window. With no element above the roofline there is no risk of dirt accumulating
- Use in combination with other roof windows using the K_/G flashing
- Also available in white, please ask for details

BALCONY WINDOW

BALCONY WINDOW

	windows external dimensions [cm] / effective glazing area [m²] / size symbol	78x255 (0.92) CA	94x255 (1.67) CB
FGH-V P2 Galeria	P2 - Anti-burglary double glazed unit. U value of window 1.5	**£2350**	**£2350**
FGH-V P5 Galeria	P5 - Anti-burglary double glazed unit. Class P2A U value of window 1.1	**£2800**	**£2800**
FGH-V/U P2 Galeria	P2 - Anti-burglary double glazed unit. U value of window 1.5	**£2450**	**£2450**
FGH-V/U P5 Galeria	P5 - Anti-burglary double glazed unit. Class P2A U value of window 1.1	**£2900**	**£2900**

PLEASE NOTE WHEN ORDERING FGH-V GALERIA WINDOW IT IS REQUIRED TO FILL IN THE FORM WHICH IS TO BE FOUND AT WWW.FAKRO.CO.UK

- Twin sash balcony window
- Windows turn through 180° to clean outer pane from within the room
- Operating handle in the base of the upper sash for ease of use
- V40P automatic air vent to prevent unnecessary heat loss
- Topsafe® system of burglary protection as standard
- High quality close-grain vacuum impregnated pine guaranteed to be knot-free
- White finish also available please ask for details
- Suitable for pitches from 35° - 55°
- Available in conservation style

BDL
BDR
BVP
BXP

BD_

- Tilt and turn opening window
- Side handle operation
- Key operated lock and muti-point locking fittings
- Left and right hand opening options

BVP

- Tilt opening
- Top handle operation
- Key operated lock and muti-point option

BXP

- Non-opening option

L-SHAPE COMBINATION WINDOWS

L-SHAPED WINDOW FOR COMBINING WITH A PITCHED ROOF WINDOW - CANNOT BE USED ON THEIR OWN

	windows external dimensions [cm]	78x60	78x75	78x95	78x115	78x137	94x60	94x75	94x95	94x115	114x60	114x75	114x95	114x115	134x60
	effective glazing area [m²]	0,25	0,33	0,45	0,57	0,71	0,31	0,42	0,58	0,33	0,40	0,53	0,73	0,92	0,61
	size symbol	33	81	82	83	84	34	85	86	87	35	89	90	91	36
BDL P2/ BDR P2	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£525	£580	£630	£700	£775	N/A	£620	£690	£750	N/A	N/A	£745	£820	N/A
BVP P2	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£338	£355	£375	£422	£465	£375	£395	£418	£460	£392	£420	£435	£480	£425
BXP P2	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£275	£286	£298	£332	£360	£298	£310	£324	£352	£348	£376	£415	£455	£395
BDL/W P2/ BDR/W P2	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£565	£622	£675	£754	£828	N/A	£662	£735	£808	N/A	N/A	£792	£876	N/A
BVW P2	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£378	£398	£420	£470	£516	£420	£440	£464	£510	£438	£464	£480	£530	£474
BXW P2	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£308	£322	£332	£372	£402	£332	£345	£362	£394	£386	£420	£462	£508	£440
BDL/U P2/ BDR/U P2	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£578	£638	£694	£770	£852	N/A	£682	£760	£825	N/A	N/A	£820	£902	N/A
BVU P2	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£385	£405	£428	£482	£532	£428	£452	£480	£525	£448	£480	£494	£560	£485
BXU P2	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.3	£332	£346	£360	£402	£440	£360	£374	£395	£430	£418	£451	£498	£546	£474

WINDOWS AVAILABLE IN P5 TRIPLE GLAZED; L-SHAPED WINDOWS IN BLOCK COMBINATIONS AVAILABLE AS WELL- CONTACT FAKRO SALES OFFICE FOR DETAILS.

FLASHING FOR L-SHAPED WINDOW

	windows external dimensions [cm]	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98
	size symbol	05	06	07	08	09	10	11	12
EUV-L/B	for Slate	£152	£162	£173	£170	£172	£172	£179	£177
EUV/B	for Tiles	£129	£134	£139	£137	£139	£139	£144	£142

Combine with any standard FAKRO roof window. Extend glazing area from the roof into the wall

High quality close-grain vacuum impregnated pine guaranteed to be knot-free

Join with roof windows with a pitch from 15° - 55°

White finish also available please ask for details

FW_
WG_
WLI

FWL-left

FWR-right

- Right and left opening*
- Open to 90°
- Gas piston to assist opening and to prevent slamming
- 5 flashing options to suit specific roof covering**
- Conservation style available
- 32dB acoustic performance
- Suitable for pitches of 15°-55°

NOTE:
* WHEN ORDERING NOTE TO CHOOSE SIDE HUNG OPENING OPTION WHEN VIEWED FROM THE OUTSIDE
** ORDER FLASHINGS SPECIFIC TO THESE WINDOWS – DO NOT USE STANDARD FLASHINGS

MEANS OF ESCAPE AND ACCESS ROOF LIGHTS

SIDE HUNG ESCAPE WINDOW

	windows external dimensions [cm]	66x78	66x98	66x118	78x98	78x118	94x98	94x118
	size symbol	22	03	04	05	06	15	08
FWL P2 & FWR P2	Natural Pine. P2 Energy saving double glazed, U value of window 1.4	£345	£345	£360	£435	£472	£522	£552
FWL/U P2 & FWR/U P2	White PU Coated Pine. P2 Energy saving double glazed, U value of window 1.4	£430	£430	£450	£552	£598	£662	£695
FWL/C P2 & FWR/C P2	Natural Pine. P2 Energy saving double glazed. Conservation style, U value of window 1.4	£464	£466	£512	£600	£680	£706	£745
FWL/W P2 & FWR/W P2	White Acrylic. P2 Energy saving double glazed, U value of window 1.4	£380	£380	£396	£478	£520	£574	£608

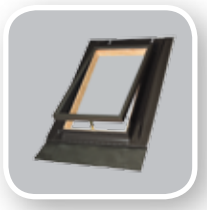
FLASHING FOR SIDE HUNG ESCAPE WINDOW

ELW Flashing for slate up to 8mm thick	£71	£72	£74	£75	£79	£84	£84
EZW-A Flashing for tile profiles up to 45mm	£71	£72	£74	£75	£79	£84	£84
EHW-A Flashing for tile profiles up to 90mm	£81	£81	£84	£84	£89	£95	£95
ESW Flashing for flat roofing materials	£62	£62	£64	£65	£70	£74	£74
EPW Flashing for plain tiles up to 15mm	£74	£75	£76	£76	£82	£87	£87
ELW/C Conservation flashing for slate up to 8mm thick	£90	£90	£94	£94	£100	£107	£107
EZW-A/C Conservation flashing for tile profiles up to 45mm	£90	£90	£94	£94	£100	£107	£107
EHW-A/C Conservation flashing for tile profiles up to 90mm	£103	£103	£107	£107	£113	£121	£121
ESW/C Conservation flashing for flat roofing materials	£76	£76	£80	£80	£88	£94	£94
EPW/C Conservation flashing for plain tiles up to 15mm	£94	£94	£97	£97	£103	£110	£110

STANDARD ACCESS ROOF LIGHTS

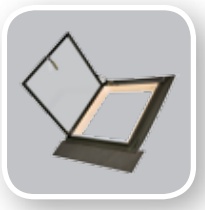
external dimensions [cm] / size symbol	46x55 01	46x75 02	46x61 16
WGT	£110	£119	N/A
WGI	£131	£140	N/A
WGI/C	£172	£184	£252

external dimensions [cm] / size symbol	54x98 01
WLI	£222
WLI/C	£260



WG_

- Top hung opening
- Choice of glazing options
  - WGT version with single toughened glass 4H,
  - WGI version with integrated toughened glass 4H-10-4H. Equipped with sash turn limiter which holds the sash stable when opened and prevents it slamming shut accidentally
- Conservation style available
- Universal flashing
- Suitable for pitches of 15°-60°.



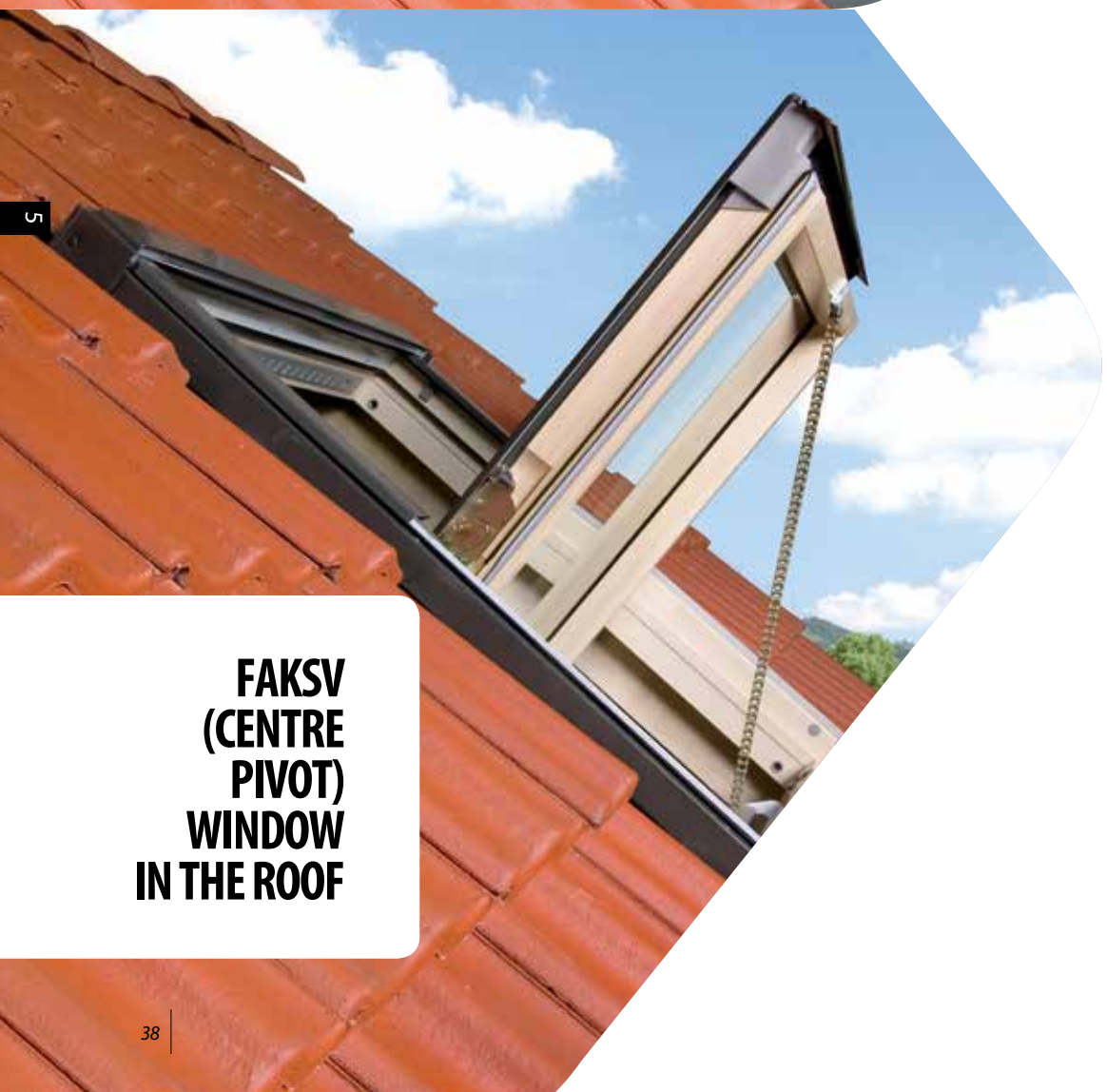
WLI

- Right and left opening
- Conservation style available
- Universal flashing
- Suitable for pitches of 15°-70°
- 5 year warranty

NOTE: ACCESS ROOF LIGHTS WGT, WGI AND WLI ARE FOR USE IN NON-HABITABLE ROOMS ONLY

ALL PRICES EXCLUDE VAT

FSP WINDOW IN THE ROOF



FAKSV (CENTRE PIVOT) WINDOW IN THE ROOF

SMOKE VENTILATION SYSTEMS FOR PITCHED ROOFS

FSP SMOKE VENTILATION ROOF WINDOWS (EN12 10112: 2003)

Are electronically operated and activated by a smoke sensor built into the control unit. A signal from the sensor triggers automatic operation of the motor. The sash is hinged at the bottom and acts as a wind break allowing fast and effective smoke ventilation.

ELECTRICAL COMPONENTS

FAKSV

FSP

FAKSV17

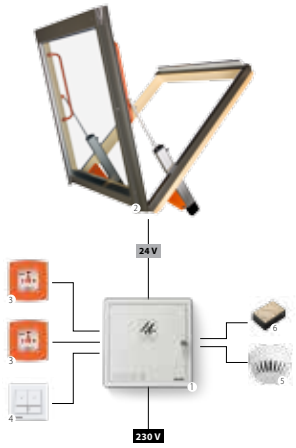
FSP SMOKE VENTILATION WINDOW EN12 10112:2003					
Window external dimensions (cm)	78x140	94x140	114x118	114x140	134x98
effective smoke ventilation area (m^2) / effective glazing area (m^2)	0.53 / 0.91	0.65 / 1.12	0.67 / 1.15	0.8 / 1.38	0.65 / 1.11
size symbol	07	09	10	11	12
FSP PINE	**£2 750,00**	**£2 820,00**	**£2 820,00**	**£3 050,00**	**£3 000,00**
FSP-U Polyurethane	**£2 770,00**	**£2 840,00**	**£2 840,00**	**£3 070,00**	**£3 020,00**
U value of window = 1.1					

PRICE INCLUDES FSP WINDOW, ACTUATORS, CONTROL UNIT, SMOKE SENSOR, SMOKE ALARM & FLASHING KIT

Flashing for **FSP** Smoke Ventilation Windows

Bottom opening system

ELS – Flashing kit for slate
EZS – Flashing kit for interlocking tiles up to 45mm
EHS – Flashing kit for interlocking tiles up to 90mm



ALL ELECTRICAL ELEMENTS & ACTUATORS
ARE SUPPLIED LOOSE FOR ON SITE INSTALLATION BY OTHERS

SMOKE VENTILATION. PLEASE ADVISE FLASHING KIT TYPE REQUIRED AT THE TIME OF ORDER

FAKSV1 – PINE

Single centre pivot window with electrics pack and flashing kit giving **1.0**m^2 of ventilation
1 × CDC200/600 Chain Actuator,
1no FTP-V P2 10 114 x 118cm Flashing Kit-
1 x CDC 200/600 chain actuator
Control Unit with break glass and battery back up
1 x smoke sensor,
1 x break glass alarm

£1 395

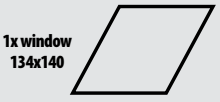
FAKSV2 – PINE

2 centre pivot windows with electrics pack and flashing kit giving **1.5**m^2 of ventilation
2no FTP-V P2 07 78 x 140cmB2/1 Flashing Kit –
2no CDC200/600 chain actuator
Control Unit with break glass and battery back up –
1 x smoke sensor
1 x break glass (100mm gap between the window)

£1 980

FAKSV 17 – PINE

Single centre pivot window with electrics pack and flashing kit giving **1.5**m^2 of ventilation
1no FTP-V P2 17 134 x 140cm Flashing Kit-
1 x CDC 200/600 chain actuator
Control Unit with break glass and battery back up
1 x smoke sensor,
1 x break glass alarm



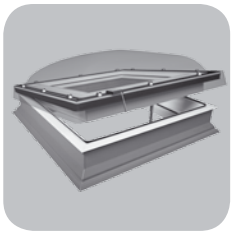
£1 425

ADDITIONAL SMOKE SENSORS AND BREAKGLASS CAN BE ORDERED IF REQUIRED – CONTACT FAKRO SALES OFFICE FOR FURTHER DETAILS.
ALL KITS ARE SUPPLIED FOR ON SITE INSTALLATION & COMMISSIONING BY OTHERS
ALL ELECTRICAL ELEMENTS ARE CERTIFIED TO EN12101 10

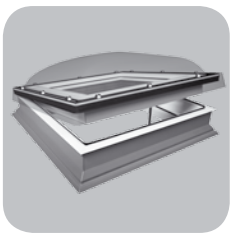
DEC
DMC
DXC

The domed flat roof window is available in the following versions:

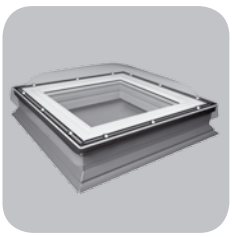
Z-WAVE



DEC
- Electrically opened wireless Z-Wave system
- Rain sensor



DMC
- Manually opened



DXC
- Non-opening

DOMED FLAT ROOF WINDOWS

SIZES OF FLAT ROOF WINDOW

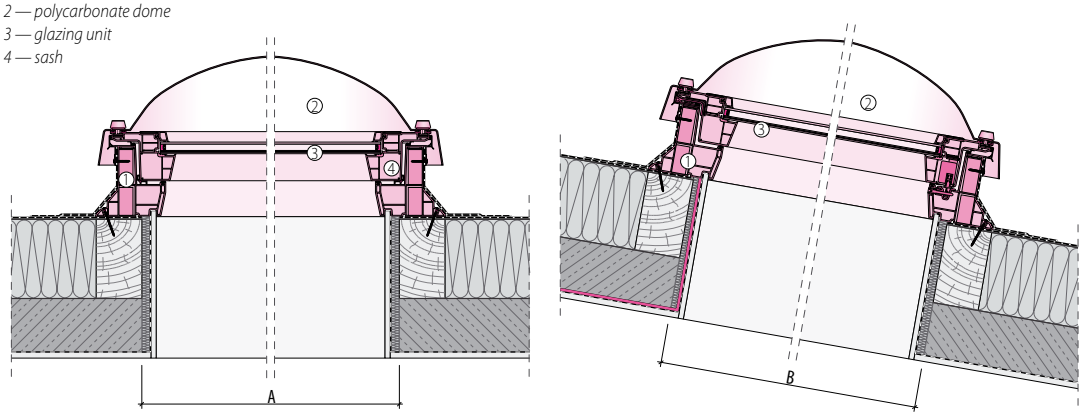
	dimensions [cm] Minimum roof opening [cm] Maximum roof openng [cm] Effective glazed area [m²]	60x60 60x60 65x65 0,23	60x90 60x90 65x95 0,37	70x70 70x70 75x75 0,33	80x80 80x80 85x85 0,46	90x90 90x90 95x95 0,6	90x120 90x120 95x125 0,83	100x100 100x100 105x105 0,77	100x150 100x150 105x155 1,21	120x120 120x120 125x125 1,16
DXC-C P2	Non-opening P2 - Anti-burglary double glazed unit. U value of window 1.2	**£469**	**£501**	**£508**	**£527**	**£603**	**£694**	**£656**	**£834**	**£797**
DXC-C P4 Secure*	Non-opening P4 - Anti-burglary double glazed unit. U value of window 1.2	**£540**	**£600**	**£615**	**£615**	**£710**	**£790**	**£770**	**£980**	**£950**
DMC-C P2	Manually opening P2 - Anti-burglary double glazed unit. U value of window 1.2	**£610**	**£675**	**£695**	**£698**	**£798**	**£890**	**£865**	**£1 110**	**£1 075**
DMC-C P4 Secure*	Manually opening P4 - Anti-burglary double glazed unit. U value of window 1.2	**£672**	**£745**	**£770**	**£770**	**£880**	**£980**	**£955**	**£1 225**	**£1 180**
DEC-C P2	Electrically opening P2 - Anti-burglary double glazed unit. U value of window 1.2	**£859**	**£891**	**£908**	**£917**	**£993**	**£1 084**	**£1 046**	**£1 224**	**£1 187**
DEC-C U8 (VSG)	U8 - Passiv quadruple glazed unit. U value of window 0.72**	**£1 300**	**£1 360**	**£1 400**	**£1 410**	**£1 550**	**£1 700**	**£1 650**	**£1 950**	**£1 900**

* P4 SECURE WINDOW OFFERS INCREASED LEVELS OF SECURITY AND ACHIEVES ANTI-BURGLARY RC2 AS PER EN1627 (DOCUMENT Q)
** THIS WINDOW DOES NOT HAVE PASSIVE CERTIFICATION

ACCESSORIES page 64-66

Cross-section of DEC flat roof windows

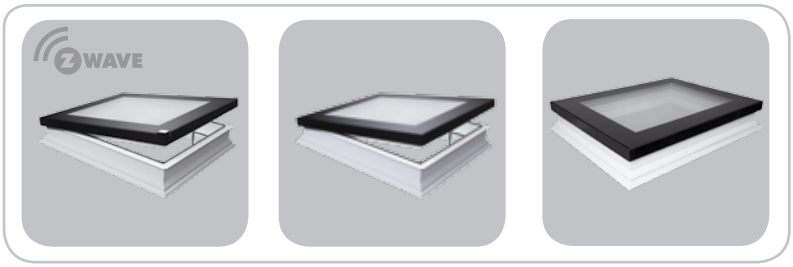
1 — multi-chamber PVC profile
2 — polycarbonate dome
3 — glazing unit
4 — sash



- High energy-efficiency. Perfect thermal insulation parameters. The DEC-C U8 window with passive U8 (VSG) glazing unit is characterized by heat transmittance co-efficient for the whole window of U=0.55 W/m²K according to EN1873 standard (for the size 120x120cm). Standard P2 glazing unit features coefficient U=1.2 W/m²K
- Provides a large amount of natural light
- Wide range of sizes
- Window design allows for the installation of internal and external accessories
- The domed flat roof window is intended for installation in a roof with a pitch of 0°-15° The flat roof window can be also mounted on an additional base with a height of 15cm, which raises the window and allows its installation, e.g. in green or living roofs
- ZSD universal telescopic rod available for opening and closing flat roof windows and internal blinds, see page 70

reddot design award
winner 2016

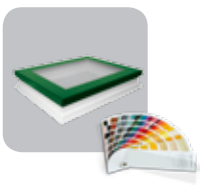
DEF
DMF
DXF



DEF
- Electrically opened wireless Z-Wave system
- Rain sensor

DMF
- Manually opened

DXF
- Non-opening



D_F ColourLine are available in any colour from RAL Classic palette.

NON DOMED FLAT ROOF WINDOWS

SIZES OF FLAT ROOF WINDOW

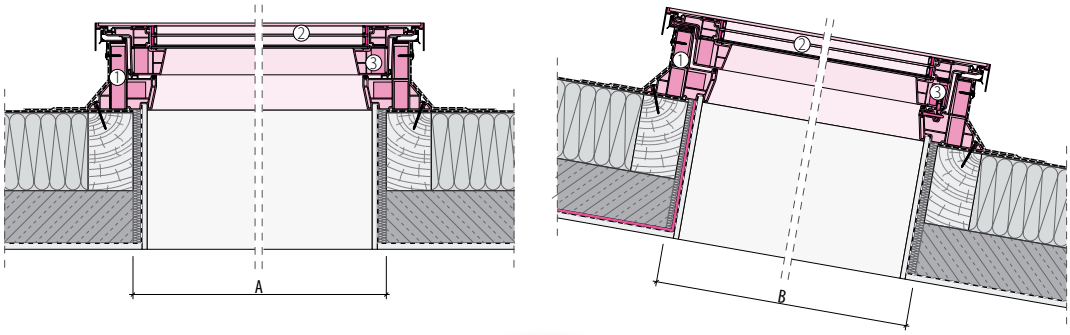
	dimensions [cm] Minimum roof opening [cm] Maximum roof openng [cm] Effective glazed area [m²]	60x60 60x60 65x65 0,23	60x90 60x90 65x95 0,37	70x70 70x70 75x75 0,33	80x80 80x80 85x85 0,46	90x90 90x90 95x95 0,6	90x120 90x120 95x125 0,83	100x100 100x100 105x105 0,77	100x150 100x150 105x155 1,21	120x120 120x120 125x125 1,16
DXF-D U6	Non opening. U6 - High energy efficient triple glazed unit. U value of window 0.70	**£858**	**£926**	**£952**	**£956**	**£1 072**	**£1 190**	**£1 156**	**£1 428**	**£1 385**
DXF-D U6 Secure*	Non opening. U6 - High energy efficient triple glazed unit. U value of window 0.70	**£946**	**£1 018**	**£1 046**	**£1 050**	**£1 175**	**£1 298**	**£1 275**	**£1 555**	**£1 514**
DMF-D U6	Manually opening. U6 - High energy efficient triple glazed unit. U value of window 0.70	**£960**	**£1 038**	**£1 072**	**£1 080**	**£1 208**	**£1 326**	**£1 292**	**£1 606**	**£1 548**
DMF-D U6 Secure*	Manually opening. U6 - High energy efficient triple glazed unit. U value of window 0.70	**£1 054**	**£1 135**	**£1 178**	**£1 182**	**£1 318**	**£1 454**	**£1 412**	**£1 752**	**£1 700**
DEF-D U6	Electrically opening. U6 - High energy efficient triple glazed unit. U value of window 0.70	**£1 190**	**£1 258**	**£1 285**	**£1 292**	**£1 428**	**£1 548**	**£1 514**	**£1 785**	**£1 742**
DXF-D U8	Non opening. U8 - Passive quadruple glazed unit. U value of window 0.64	**£1 122**	**£1 208**	**£1 235**	**£1 248**	**£1 395**	**£1 530**	**£1 504**	**£1 854**	**£1 785**
DMF-D U8	Manually opening. U8 - Passive quadruple glazed unit. U value of window 0.64	**£1 198**	**£1 300**	**£1 344**	**£1 352**	**£1 514**	**£1 658**	**£1 615**	**£1 998**	**£1 955**
DEF-D U8	Electrically opening. U8 - Passive quadruple glazed unit. U value of window 0.64	**£1 445**	**£1 514**	**£1 564**	**£1 576**	**£1 700**	**£1 870**	**£1 828**	**£2 168**	**£2 108**

* DU6 SECURE WINDOW OFFERS INCREASED LEVELS OF SECURITY AND ACHIEVES ANTI-BURGLARY RC2 AS PER EN1627 (DOCUMENT Q)
** THIS WINDOW DOES NOT HAVE PASSIVE CERTIFICATION

ACCESSORIES page 64-66

Cross-section of DEF flat roof windows

1 —multi-chamber PVC profile
2 —glazing unit
3 — sash



The D_F non-domed flat roof window is characterized by exceptional thermal insulation qualities and innovative design

Modern window bonding technology gives a highly aesthetic and innovative design. Provides a large amount of natural light

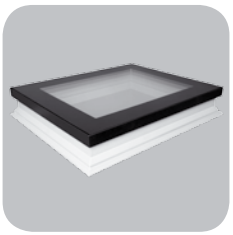
The D_F window can be manufactured in a wide range of sizes and is an ideal replacement for old skylights that do not meet current thermal insulation parameters

To ensure the flow of water from the glass surface of D_F non domed windows, the window should be installed with a pitch of at least 2°. Flat roofs generally have a pitch of 3-4°.
The flat roof window can be also mounted on an additional base with a height of 15cm, which raises the window and allows its installation, e.g. in green or living roofs

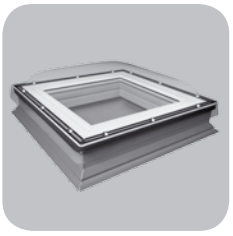
Window design allows for the installation of internal and external accessories

ZSD universal telescopic rod available for opening and closing flat roof windows and internal blinds, see page 70

D_F Secure, D_C Secure



D_F Secure



D_C Secure

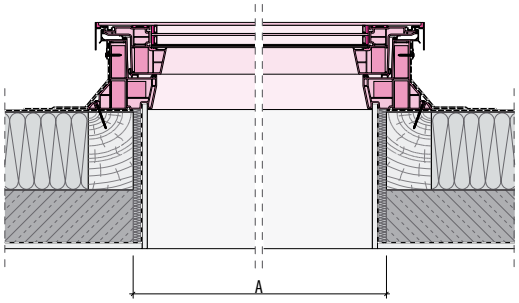
WINDOWS D_F SECURE, D_C SECURE

SIZES OF FLAT ROOF WINDOW

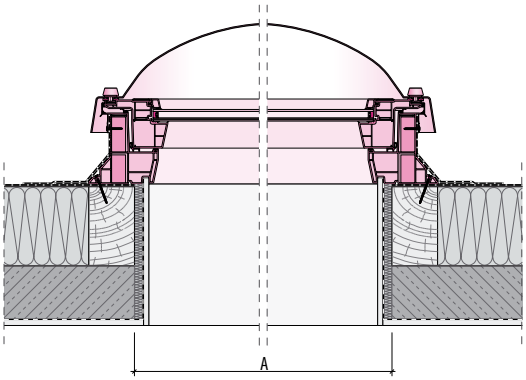
	dimensions [cm] Minimum roof opening [cm] Maximum roof openng [cm] Effective glazed area [m²]	60x60 60x60 65x65 0,23	60x90 60x90 65x95 0,37	70x70 70x70 75x75 0,33	80x80 80x80 85x85 0,46	90x90 90x90 95x95 0,6	90x120 90x120 95x125 0,83	100x100 100x100 105x105 0,77	100x150 100x150 105x155 1,21	120x120 120x120 125x125 1,16
DXC-C P4 Secure*	Non-opening P4 - Anti-burglary double glazed unit. U value of window 1.2	**£540**	**£600**	**£615**	**£615**	**£710**	**£790**	**£770**	**£980**	**£950**
DMC-C P4 Secure*	Manually opening P4 - Anti-burglary double glazed unit. U value of window 1.2	**£672**	**£745**	**£770**	**£770**	**£880**	**£980**	**£955**	**£1 225**	**£1 180**
DXF-D U6 Secure*	Non opening. U6 - High energy efficient triple glazed unit. U value of window 0.70	**£946**	**£1 018**	**£1 046**	**£1 050**	**£1 175**	**£1 298**	**£1 275**	**£1 555**	**£1 514**
DMF-D U6 Secure*	Manually opening. U6 - High energy efficient triple glazed unit. U value of window 0.70	**£1 054**	**£1 135**	**£1 178**	**£1 182**	**£1 318**	**£1 454**	**£1 412**	**£1 752**	**£1 700**

* DU6 SECURE WINDOW OFFERS INCREASED LEVELS OF SECURITY AND ACHIEVES ANTI-BURGLARY RC2 AS PER EN1627 (DOCUMENT Q)
** THIS WINDOW DOES NOT HAVE PASSIVE CERTIFICATION

Cross-section of type Secure flat roof windows



Type F Secure window



Type C Secure window

Secure type flat roof windows are available and feature anti-burglary properties. They are equipped with a number of features aimed at enhancing both safety and security parameters.

The type F windows (DMF DU6 Secure, DXF DU6 Secure) as well as the type C windows (DXC P4 Secure, DMC P4 Secure) comply with European anti-burglary class RC2 (EN 1627).

An abundance of natural light. The specially designed shape of the window profiles has a glazing area up to 16% greater than those of competitors.

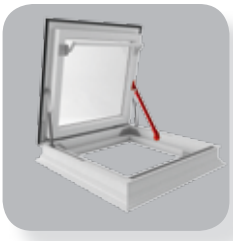
D_F Secure windows come with a highly energy-efficient, double chamber DU6 glazing unit with a Class P4A anti-burglary inner pane. The whole window U-value is 0.70 W/m²K (EN 14351-1).

D_C Secure windows come with an energy-efficient, single chamber glazing unit with a Class P4A anti-burglary inner pane. The whole window U-value is 1.2 W/m²K (EN 12567-2).

The structure of the window enables installation of internal as well as external accessories.

The type F flat roof window is suitable for roof pitches between 2 and 15°, while the type F is designed for pitches between 0 and 15°.

DRC
DRF



DRF

- Flat access roof light without dome

DRC

- Flat access roof light with dome

- The dome can be transparent DRC-C or opaque DRC-M.

FLAT ROOF ACCESS WINDOWS

SIZES OF FLAT ROOF WINDOWS

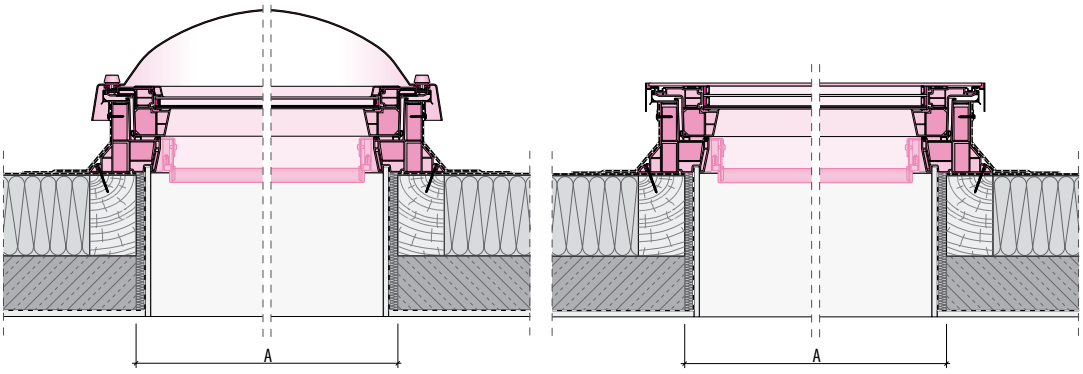
	dimensions [cm] Minimum roof opening [cm] Maximum roof openng [cm] Effective glazed area [m²]	90x90 90x90 95x95 0,6	90x120 90x120 95x125 0,83	100x100 100x100 105x105 0,77	120x120 120x120 125x125 1,16
DRF DU6	Flat access roof light without the dome. U6 - High energy efficient triple glazed unit. U value of window 0.74*	**£1 400**	**£1 550**	**£1 500**	**£1 800**
DRC-C P2	Flat access roof light with the dome. P2 - Anti-burglary double glazed unit. U value of window 0.88**	**£980**	**£1 080**	**£1 060**	**£1 320**

* ACCORDING TO EN14351-1:2006+A1:2010
** ACCORDING TO EN1873:2014

CROSS-SECTION OF FLAT ACCESS ROOF LIGHTS

ACCESSORIES
page 64-66

Cross-section of flat access roof lights



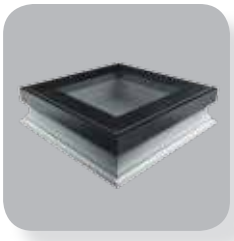
Provide safe and convenient access to the flat roof. Special hinges and functional opening system used in the access roof light ensure easy sash opening up to 80°. Gas springs facilitate operation of the sash and keep it stable in the open position, thus protecting against accidental closing. What is more, access roof lights feature increased safety of use thanks to the application of anti-slip covers on their profiles.window and allows its installation, e.g. in green or living roofs

The frame of the flat roof window is manufactured from multi-chamber PVC profiles filled inside with insulation material. In the DRF access roof light, the upper part of the window is equipped with innovative flat glazing unit and DRC has a dome made of durable polycarbonate.

The type C flat access roof light is intended for roofs with pitches between 0° and 15°, while the type F flat access roof light is designed for installation in roofs with pitches between 2° and 15°. Window can be mounted on an additional 15cm high base (XRD), e.g. for installation on a green roof.

The window design allows installation of both internal and external accessories (DRC internal accessories only). External awning blind protects the room from overheating, while internal accessories provide protection from intense sunlight and enhance interior design.

DXW WALK ON WINDOW



DXW

- The DXW flat roof window offers a completely new approach to be taken with flat roof design. Its specially strengthened sash and frame enable it to be installed completely flush within the roofline.

- With special design features such as enhanced load-bearing capacity and a lasting, non-slip surface you can walk across its surface freely.

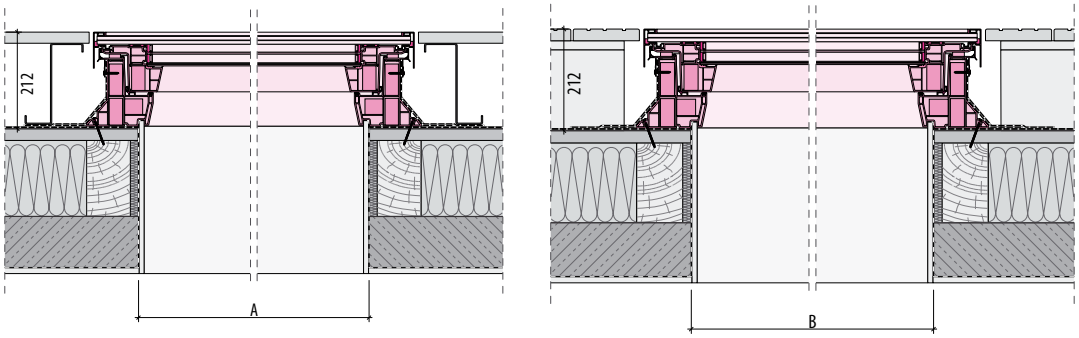
FLAT ROOF WINDOW DXW WALK ON WINDOW

FLAT ROOF WINDOWS

window size [cm]	60x60	60x90	70x70	80x80	90x90	90x120	100x100	120x120
glazing area [m²]	0,23	0,37	0,33	0,46	0,6	0,83	0,77	1,16
size symbol	01K	02K	03K	04K	05K	06K	07K	08K
DXW Non-opening U=0.70 W/m²K *	£1 404	£1 508	£1 560	£1 580	£1 748	£1 924	£1 872	£2 268

* ACCORDING TO EN 14351-1:2006+A1:2010

Cross-section of DXW flat roof window



DXW

- providing a surface level with the roof and a special non-slip surface to ensure complete safety when walking across it
- enhanced load capacity
- high resistance to break-in attempts thanks to reinforced design
- reduced heat loss (Uw=0.70 W/m²K)
- modern design and high quality finish
- quick and easy installation
- profiles which clamp the covering material and facilitate the finish of the window connection with the roofing material included as standard

- An abundance of natural light in buildings with flat roofs.
- The frame of the flat roof window is constructed of multi-chamber PVC profiles filled with insulation material. The upper part of the window comes with an innovative flat glazing unit.
- The window comes with passive, double-chamber glazing unit with a U-value of 0.50 W/m²K.
- Suitable for roof pitches between 0° and 15°.
- It is possible to install the same internal accessories which are used in all our type F flat roof windows.

DSF
DSC

DSF

smoke ventilation flat roof window

DSC-C

smoke ventilation flat roof window with a dome made of durable polycarbonate.

SMOKE VENTILATION FLAT ROOF WINDOWS FLAT ROOF SMOKE VENTILATION

SMOKE VENTILATION FLAT ROOF WINDOWS

window size [cm]		100x100	105x105	120x120
glazing area [m²]		0,90	1,00	1,32
size symbol		07K	12 K	08K
DSF DU6	Ug=0.5 W/m²K	**N/A**	**£5 600**	**£5 900**
DSC-C2 P2	Ug=1.2 W/m²K	**£3 900**	**N/A**	**£4 300**

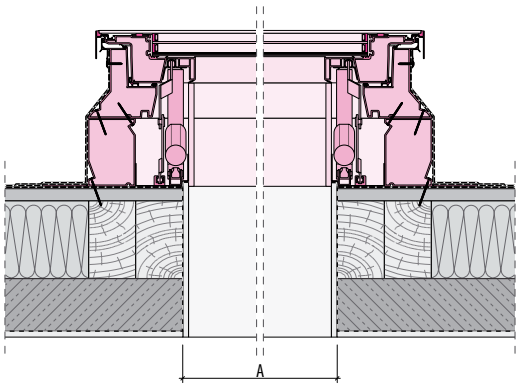
ADDITIONAL ELEMENTS:

RAIN SENSOR ZRD	**£72**
VENTILATION SWITCH WHITE LP1W	**£45**
VENTILATION SWITCH BLACK LP1B	**£55**

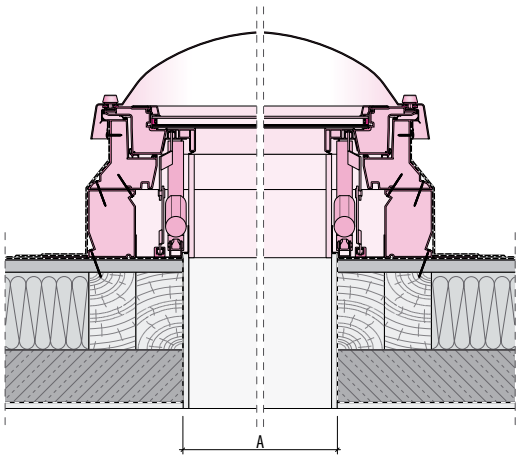
DSF DU6 – INCLUDES CONTROL PANEL RZN4408K
– 1no SMOKE SENSOR OSD23 – 1no BREAKGLASS RT45
DSC-C2 P2 – INCLUDES CONTROL PANEL RZN4404K
– 1no SMOKE SENSOR OSD23 – 1no BREAK GLASS RT45

WINDOW SIZE 105 X 105CM PROVIDES A GEOMETRIC SMOKE VENTIALTION AREA OF 1.0M2

Cross-section of smoke ventilation flat roof windows



Smoke ventilation window DSF



Smoke ventilation window DSC

DSF, DSC smoke ventilation flat roof windows are used for extraction of smoke and heat emitted in a building during a fire. This is a perfect solution for stairwells where under normal operating conditions this window serves the purpose of room ventilation and lighting.

FAKRO smoke ventilation windows combine the standard function of a roof window with that of automatic smoke evacuation in a single product.

- An abundance of natural light in buildings with flat roofs.
- The frame of the smoke ventilation window is constructed of multi-chamber PVC profiles filled with insulation material.
- Easy opening to set the window in standard ventilation position (everyday flow of fresh air).
- The sash raises to a height of 23cm when used for everyday ventilation, but in the event of fire it raises to 50cm. Elements of the sash lifting mechanism are not visible with the window closed.
- Opening mechanism and two or four 24V actuators ensure perfect operation and ease of access for maintenance purposes.
- Suitable for roof pitches between 0° and 15°. When installing windows must be level.

DRL + LML

DRL
- roof access door

+

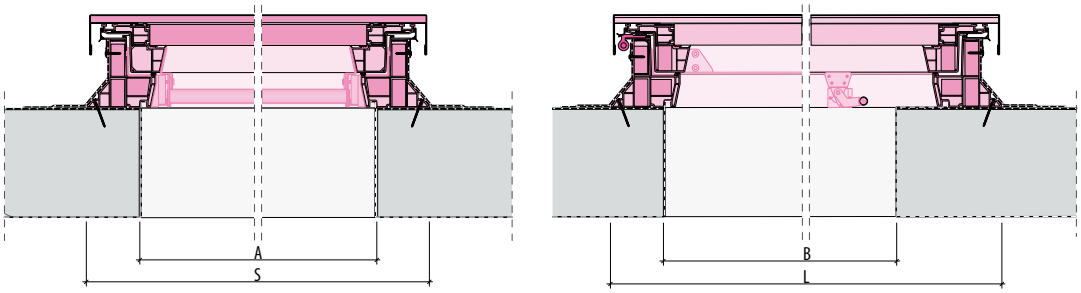
LML
- Loft Ladder*

*DETAILS TO BE FOUND IN LOFT LADDER CATALOGUE 2017

FLAT ROOF ACCESS DOOR

FLAT ROOF ACCESS DOOR						
Roof access door size [cm]	60x120	70x120	70x130	70x140	86x130	92x130
DRL + LML 280cm	**£1 500**	**£1 550**	**£1 600**	**£1 650**	**£1 940**	**£2 000**
DRL + LML 305cm	**N/A**	**N/A**	**£1 630**	**£1 685**	**£2 005**	**£2 050**

PRICE INCLUDES THE ACCESS DOOR AND THE LML LOFT LADDER AS INDIVIDUAL ITEMS FOR ON SITE INSTALLATION



The DRL roof access door is an innovative product providing safe and comfortable access to the flat roof. Its structural durability and range of sizes provide the perfect combination with a loft ladder.

The sash can be opened up to 60°. Gas springs facilitate opening and closing and the sash can be left in open position. Anti-slip tape on the base ensures safe access to the flat roof.

Sizes of the roof access door are adjusted according to the size of loft ladder (loft ladders are sold separately - see Loft Ladder Catalogue).

Can be mounted on an additional XRD/W base with a height of 15cm, for installation in green and living roofs. Option to install an additional ZBR lock which protects against accidental closure of the sash.

Suitable for roof pitches between 0° and 5°.

4

CONSERVATION WINDOWS

CONSERVATION WINDOWS

THE TYPE OF FLASHING KIT REQUIRED WHEN ORDERING ONE OF THE CONSERVATION KIT PACKAGES

CENTRE PIVOT - NATURAL PINE & WHITE ACRYLIC, MANUAL OPERATION

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	1.07
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
FTP-V/C P2 (V) Kit Natural Pine	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£375	£393	£409	£430	£446	£451	£505	£545	£620	£560	£580	£595	£650	£661	£700
FTP-V/C P2 (J) Kit Natural Pine	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£400	£426	£443	£465	£483	£500	£544	£587	£680	£600	£640	£665	£702	£709	£780
FTW-V/C P2 (V) Kit White Acrylic	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£382	£400	£416	£437	£453	£458	£514	£554	£630	£570	£590	£605	£660	£673	£710
FTW-V/C P2 (J) Kit White Acrylic	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£412	£438	£455	£477	£495	£514	£558	£601	£692	£614	£654	£675	£712	£726	£792
FTU-V/C P2 White Polyurethane	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£392	£425	£450	£450	£458	£465	£510	£590	£660	£605	£630	£650	£690	£638	£765
FTP-V/C P2 Natural Pine	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£308	£322	£335	£352	£365	£370	£414	£446	£508	£459	£475	£488	£533	£542	£574

* INCLUDES FTP-V/C U3, CONSERVATION FLASHING (STANDARD DEPTH) AND XDP INSULATION SET
**PLEASE ADVISE THE TYPE OF FLASHING KIT REQUIRED WHEN ORDERING ONE OF THE CONSERVATION KIT PACKAGES

CENTRE PIVOT – ELECTRONICALLY OPERATED NATURAL PINE & WHITE ACRYLIC

FTP-V/C P2 Z-Wave Natural Pine	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£667	£705	£739	£741	£799	£808	£865	£893	£923	£912	£936	£946	£988	£946	£980
FTP-V/C P5 Z-Wave Natural Pine	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£750	£790	£830	£835	£880	£890	£970	£1 020	N/A	£1 045	N/A	N/A	N/A	N/A	N/A
FTW-V/C P2 Z-Wave White Acrylic	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£694	£734	£768	£770	£830	£840	£900	£928	£960	£948	£974	£984	£1 028	£984	£1 020
FTW-V/C P5 Z-Wave White Acrylic	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£860	£908	£954	£960	£1 012	£1 023	£1 115	£1 173	N/A	£1 202	N/A	N/A	N/A	N/A	N/A

WHITE POLYURETHANE CONSERVATION WINDOWS ARE ALSO AVAILABLE - PLEASE CONTACT THE FAKRO SALES OFFICE FOR FURTHER DETAILS

FAKRO has an extensive range of conservation roof windows and also routinely manufactures products to bespoke design requirements. The characteristic features of such windows are their black vertical mullion bar, cladding and flashing (to RAL9005) but from a user's perspective they offer all of our standard features and contemporary interior styling. As such, we offer a choice of natural pine, white acrylic, white PU-coated pine and PVC windows.

Whether for a listed building or a traditional barn conversion, FAKRO conservation style roof windows offer the critical facility to install them low within the roof line. Three depth options are available to suit all coverings:
Standard depth (denoted by the last letter 'V' e.g. EZV) Installation 3cm higher than standard depth (denoted by the last letter 'N')
Installation 3cm lower than standard depth (denoted by the letter 'J')
For conservation roof windows 'J' flashings are most commonly used to provide the required low profile. Flashings available are as follows:
EEJ/C - sheet metal roof coverings e.g. zinc, copper, stainless steel
ELJ/C - natural and man-made slates, etc. up to 8mm thick
EPJ/C - plain tiles (clay, non interlocking tiles)
ESJ/C - shingles e.g. cedar, asphalt, felts etc.
EZJ/C - profiled roof coverings up to 45mm in depth e.g. Double Pantile.

RECESSED FLASHINGS DO NOT ALLOW THE WINDOW TO SIT FLUSH OR BELOW THE ROOF LINE

ALL PRICES EXCLUDE VAT

CONSERVATION WINDOWS

CENTRE PIVOT - PVC WHITE (ALSO AVAILABLE IN PINE OR GOLDEN OAK TO ORDER, PRICES ON REQUEST)

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m^2]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	1.07
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
PTP-V/C P2	P2 - Safety double glazed unit. U value of window 1.2	**£392**	**£420**	**£426**	**£438**	**£452**	**£452**	**£500**	**£575**	**£648**	**£582**	**£608**	**£642**	**£704**	**£648**	**£770**
PTP-V/C O1*	O1 - Obscure double glazed unit. U value of window 1.2	**£365**	**£390**	**£400**	**£410**	**£425**	**£425**	**£470**	**£535**	**£605**	**£540**	**£565**	**£600**	**£650**	**£600**	**£720**

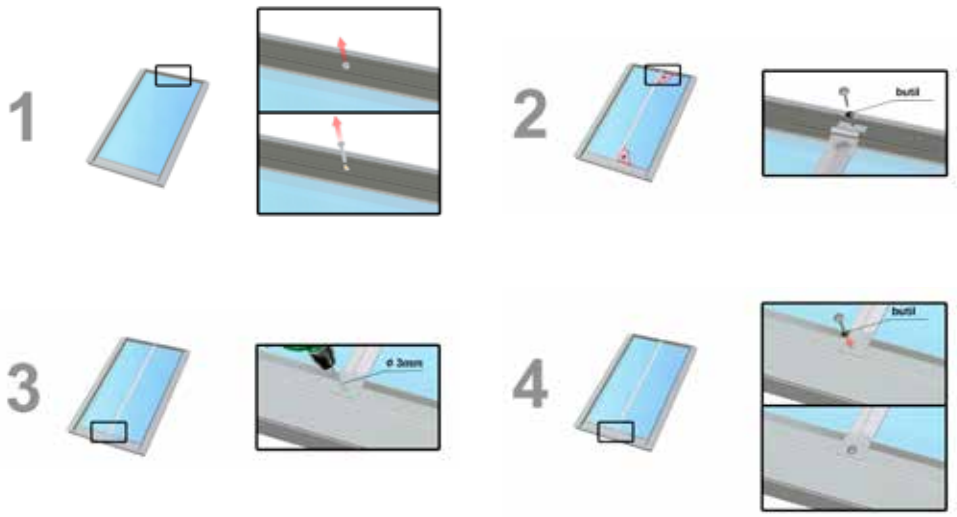
*WINDOW WITH THE OBSCURE GLASS

Conservation windows in L-shape, Anglesey, Wales

Conservation windows in L-shape, Anglesey, Wales

Pioneers Museum, Rochdale, Lancashire, sandstone slate over 25mm thick used

PLANT ON MULLION BARS-
Plant on Mullion Bars can be ordered t suit standard colour windows (RAL 7022) and create a conservation style window using a standard product. Supplied for on site fitting the bar comes complete with fixing screws. Available to suit all standard height windows, this method requires the frames to be drilled on site so care must be taken when fitting.
PLEASE CONTACT FAKRO TECHNICAL DEPARTMENT FOR FURTHER DETAILS



CONSERVATION WINDOWS

TOP HUNG AND PIVOT WINDOWS - WHITE & NATURAL PINE / WHITE PU-COATED PINE

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	1.07
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
FPP-V/C P2 preSelect	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	**N/A**	**£520**	**£530**	**£530**	**£558**	**£540**	**£585**	**£630**	**£730**	**£645**	**£695**	**£695**	**£760**	**£710**	**£795**
FPP-V/C P5 preSelect	P5 - Safety triple glazed unit.Toughened outer pane. Laminated inner pane. U value of window 0.97	**N/A**	**£748**	**£760**	**£780**	**£800**	**£778**	**£838**	**£905**	**N/A**	**£930**	**£998**	**N/A**	**N/A**	**N/A**	**N/A**
PPP-V/C P2 preSelect	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	**N/A**	**£718**	**£726**	**£726**	**£770**	**£770**	**£822**	**£895**	**N/A**	**£956**	**£1 020**	**£1 020**	**N/A**	**N/A**	**N/A**
FPU-V/C P2 preSelect	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	**N/A**	**£582**	**£588**	**£588**	**£604**	**£604**	**£630**	**£676**	**£842**	**£697**	**£749**	**£754**	**£822**	**£770**	**£858**
FPU-V/C P5 preSelect	P5 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	**N/A**	**£878**	**£884**	**£884**	**£915**	**£910**	**£956**	**£1 024**	**N/A**	**£1 055**	**£1 128**	**N/A**	**N/A**	**N/A**	**N/A**

CONSERVATION WINDOWS

THERMALLY EFFICIENT ROOF WINDOWS - NATURAL PINE

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	1.07
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
FTT/C U6	U6 - High energy efficient triple glazed unit. U value of window 0.80	**N/A**	**£635**	**£662**	**£662**	**£704**	**£710**	**£798**	**£878**	**£1 020**	**£918**	**£946**	**£953**	**£1 074**	**£974**	**£1 154**
FTT/C U8 Thermo	U8 - Passive quadruple glazed unit. U value of window 0.58*	**N/A**	**£1 075**	**£1 135**	**£1 140**	**£1 215**	**£1 220**	**£1 350**	**£1 490**	**£1 745**	**£1 560**	**£1 600**	**£1 610**	**£1 820**	**£1 660**	**£1 980**

*WINDOW U VALUE WHEN INSTALLED WITH THERMAL FLASHING
CONSERVATION FTT U 8 WINDOWS DO NOT INCLUDE THE FLASHING KIT- PLEASE SELECT A SUITABLE FLASHING KIT

THERMALLY EFFICIENT ROOF WINDOWS - WHITE PU-COATED PINE

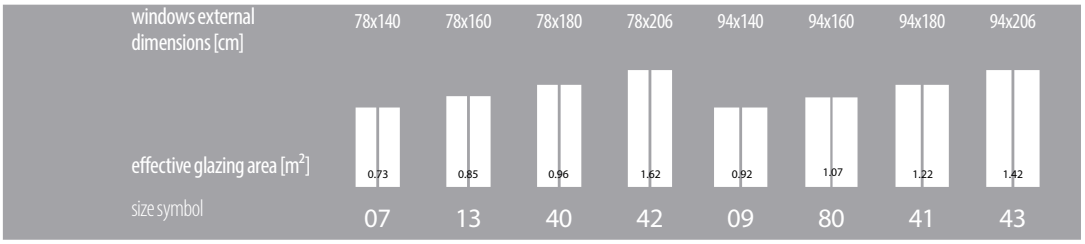
	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.82	0.75	0.92	0.95	1.16	0.92	1.07
	size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
FTT/U/C U6	U6 - High energy efficient triple glazed unit. U value of window 0.80	**N/A**	**£696**	**£734**	**£734**	**£775**	**£780**	**£878**	**£972**	**£1 134**	**£1 020**	**£1 034**	**£1 060**	**£1 206**	**£1 082**	**£1 300**
FTT/U/C U8 Thermo	U8 - Passive quadruple glazed unit. U value of window 0.58*	**N/A**	**£1 280**	**£1 350**	**£1 350**	**£1 420**	**£1 420**	**£1 600**	**£1 780**	**£2 050**	**£1 850**	**£1 900**	**£1 900**	**£2 140**	**£1 950**	**£2 320**

*WINDOW U VALUE WHEN INSTALLED WITH THERMAL FLASHING
CONSERVATION WINDOWS FTT U6 & U8 DO NOT INCLUDE THE FLASHING KIT - PLEASE SELECT A SUITABLE FLASHING KIT

Barn conversion, Baschurch, Shropshire, with the use of ELJ/C Flashing Kit

CONSERVATION WINDOWS

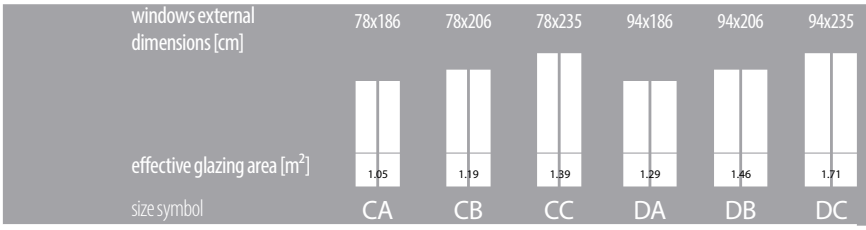
HIGH PIVOT WINDOWS - NATURAL PINE



FYP-V/C P2 proSky Single sash	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	**£610**	**£665**	**£720**	**£785**	**£672**	**£752**	**£820**	**£895**

AVAILABLE IN WHITE POLYURETHANE - PRICES ON APPLICATION

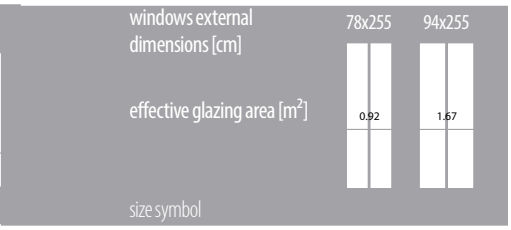
HIGH PIVOT WINDOWS - NATURAL PINE



FDY-V/C P2 Duet proSky Twin sash	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	**£858**	**£952**	**£1 040**	**£936**	**£1 030**	**£1 182**

AVAILABLE IN WHITE POLYURETHANE - PRICES ON APPLICATION

BALCONY WINDOW

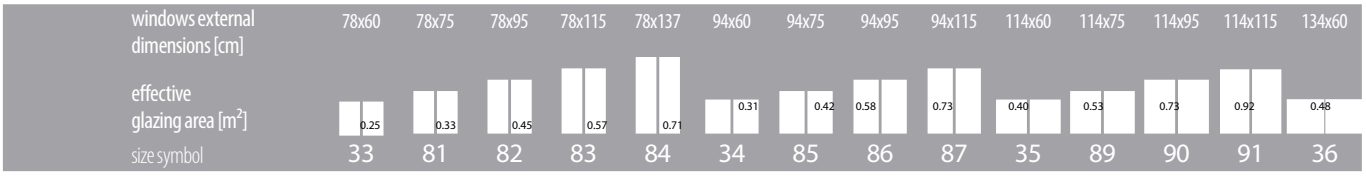


FGH-V/C P2 Galeria	P2-Anti-burglary double glazed unit. U value of window 1.5	**£2 856**	**£2 856**

Please note that the FGH-V/C Balcony window is supplied complete with flashing BUT PLEASE ENSURE you stipulate the type of roof covering

PLEASE STATE THE FLASHING KIT TYPE REQUIRED AT TIME OF ORDER

L-SHAPED COMBINATION WINDOW



BDL/C P2 BDR/C P2 Tilt and turn opening	P2 - Safety double glazed unit. U value of window 1.3	**£700**	**£760**	**£825**	**£918**	**£1 007**	**N/A**	**£818**	**£899**	**£987**	**N/A**	**N/A**	**£975**	**£1 066**	**N/A**
BVP/C P2 Tilt opening	P2 - Safety double glazed unit. U value of window 1.3	**£470**	**£495**	**£522**	**£585**	**£645**	**£522**	**£550**	**£580**	**£638**	**£545**	**£580**	**£600**	**£600**	**£588**
BXP/C P2 Non-opening	P2 - Safety double glazed unit. U value of window 1.2	**£402**	**£420**	**£440**	**£490**	**£535**	**£440**	**£460**	**£480**	**£525**	**£500**	**£535**	**£585**	**£630**	**£560**

TRIPLE GLAZED OPTIONS ARE AVAILBE TO ORDER - PLEASE CONTACT FAKRO SALES OFFICE FOR FURTHER DETAILS

FLASHINGS

Correct choice and installation of the roof window flashing is essential. FAKRO not only supplies flashings to enable roof windows to be installed with any type of roof covering but enables windows to be fitted at 3 key depths. This is particularly valuable with the installation of conservation roof windows which invariably need to sit low within the roof line.

The basic colour of FAKRO flashings is grey/brown RAL 7022 but conservation flashings are black (RAL 9005), to match the cladding and mullion bars.
You can install a FAKRO roof window at any of 3 depths
V - This is the standard depth and ideal for tiles such as the Double Roman
N - 3cm higher than the standard depth, for high profile tiles such as the Bold Roll
J - 3cm deeper than the standard depth – ideal for fitting the window lower into the roof line
No other roof tile manufacturer offers a choice of 3 depths
NOTE: WINDOWS DO NOT SIT FLUSH OR BELOW THE ROOFLINE.

STANDARD FLASHINGS ALLOW WINDOWS TO BE INSTALLED IN THE MOST POPULAR TYPE OF ROOF COVERINGS

FLASHINGS FOR CENTRE PIVOT WINDOW, TOP HUNG AND PIVOT WINDOWS

windows dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
EZV-A, ELV, EPV	£50	£51	£53	£55	£57	£57	£60	£64	£79	£68	£71	£71	£79	£75	£74
EHN-A	£57	£58	£60	£65	£65	£65	£68	£73	£82	£77	£81	£81	£88	£86	£84
EZJ-A*, ELJ* , EPJ Recessed Style	£67	£69	£72	£75	£78	£78	£81	£87	£102	£90	£97	£96	£110	£102	£100
EZV-A/C, ELV/C, EPV/C	£70	£76	£82	£82	£84	£84	£86	£87	£105	£90	£96	£102	£105	£104	£112
EHN-A/C	£84	£90	£94	£94	£97	£95	£101	£101	£120	£104	£108	£114	£120	£117	£123
EZJ-A/C*, ELJ/C*, EPJ/C* Recessed Style	£93	£99	£105	£105	£111	£111	£113	£113	£137	£122	£129	£134	£138	£142	£148
EFW (Kerb)	£260	£262	£270	£273	£275	£279	£306	£319	£378	£319	£330	£334	£356	£370	£400
EHV-AT, EPV-T ***	£86	£97	£102	£102	£104	£104	£109	£114	£129	£118	£123	£123	£129	£124	£147
ELV-T*, ESV-T***	£80	£90	£95	£95	£97	£97	£102	£107	£122	£110	£116	£116	£122	£116	£138
EZA ESA & EHA	£180	£185	£195	£195	£206	£202	£212	£220	£262	£226	£242	£242	£262	£242	£274

** FLASHING FOR FLAT, PROFILED AND HIGH PROFILED ROOF COVERINGS (UP TO 90MM PROFILE DEPTH)
*** AVAILABLE TO INDIVIDUAL ORDER

ESV-T
For flat roof coverings such as bitumen shingles up to 10mm thickness

EZV-A, EZJ-A
For profiled roof coverings up to 45mm depth

EHN-A
For deeply profiled roof coverings up to 90mm depth

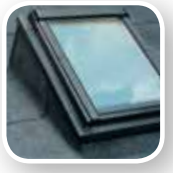
EHV-AT Thermo
Provides thermal insulation above the surface of the battens

ELV, ELJ, ELV-T
For natural and man-made slates up to 10mm thickness

EPV, EPV-T
For slates and concrete / slate plain tiles up to 16mm thickness

EE
For flat roofing materials and metal roofs

EZV-A/C, ELV/C, EPV/C, EHN-A/C, EZJ-A/C, ELJ/C
Conservation flashings are available for each of the preceding roof covering types.



EFW
For flat roof window system. Includes flashing and up-stand. It can be fitted to roofs with a pitch of up to 15°

EZA
Lifts windows out of the roofline by 10 degrees

Kingspan Header + EKB Profile Set
header section for membrane roofs.
Price on application

FDY-V P2 WINDOWS IN A B3/1 COMBINATION

FLASHINGS FOR WINDOWS WITH RAISED AXIS OF ROTATION (PROSKY)

windows dimensions [cm]	78x140	78x160	78x180	78x206	94x140	94x160	94x180	94x206
size symbol	07	13	40	42	09	80	41	43
ELV EZV-A	**£64**	**£79**	**£95**	**£107**	**£71**	**£74**	**£110**	**£122**
EHN-A	**£73**	**£82**	**£105**	**£118**	**£81**	**£84**	**£120**	**£134**
ELV/C* EZV-A/C*	**£87**	**£105**	**£122**	**£138**	**£96**	**£112**	**£142**	**£158**
EHN-A/C*	**£101**	**£120**	**£134**	**£152**	**£108**	**£123**	**£154**	**£174**

FLASHINGS FOR WINDOWS WITH RAISED AXIS OF ROTATION (DUET PROSKY)

windows dimensions [cm]	78x186	78x206	78x235	94x186	94x206	94x235
size symbol	CA	CB	CC	DA	DB	DC
ELV EZV-A	**£97**	**£109**	**£120**	**£115**	**£123**	**£136**
EHN-A	**£109**	**£120**	**£131**	**£126**	**£137**	**£150**
ELV/C* EZV-A/C*	**£125**	**£140**	**£154**	**£148**	**£160**	**£176**
EHN-A/C*	**£137**	**£154**	**£166**	**£160**	**£177**	**£192**

*CONSERVATION STYLE.

FLASHING FOR JOINING WINDOWS IN COMBINATIONS

A SELECTION OF THE MOST POPULAR COMBINATION FLASHING KITS FOR SLATE & INTERLOCKING TILES UP TO 45mm PROFILE ARE SHOWN BELOW - OTHERS AVAILABLE ON REQUEST.

windows dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
2 Piece Combinations B2/1. B1/2 **EZV-A. ELV. EPV**	£125	£128	£133	£138	£143	£143	£150	£160	£198	£170	£178	£178	£198	£188	£185
EZV-A/C. ELV/C. EPV/C	£175	£190	£205	£205	£210	£210	£215	£218	£263	£225	£240	£255	£263	£260	£280
3 Piece Combinations B3/1. B1/3 **EZV-A. ELV. EPV**	£188	£191	£199	£206	£214	£214	£225	£240	£297	£255	£266	£266	£296	£281	£278
EZV-A/C. ELV/C. EPV/C	£263	£285	£308	£308	£315	£315	£323	£326	£394	£338	£360	£383	£394	£390	£420
4 Piece Combinations B2/2 **EZV-A. ELV. EPV**	£250	£255	£265	£275	£285	£285	£300	£320	£395	£340	£355	£355	£395	£375	£370
EZV-A/C. ELV/C. EPV/C	£350	£380	£410	£410	£420	£420	£430	£435	£525	£450	£480	£510	£525	£520	£560
6 Piece Combinations B3/2. B2/3 **EZV-A. ELV. EPV**	£375	£383	£398	£413	£428	£428	£450	£480	£593	£510	£533	£533	£593	£563	£555
EZV-A/C. ELV/C. EPV/C	£525	£570	£615	£615	£630	£630	£645	£653	£788	£675	£720	£765	£788	£780	£840

A SELECTION OF THE MOST POPULAR COMBINATION FLASHING KITS FOR HIGH PROFILE INTERLOCKING TILES UP TO 90mm ARE SHOWN BELOW - OTHERS AVAILABLE ON REQUEST.

windows dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
2 Piece Combinations B2/1. B1/2 **EHN-A**	£143	£145	£150	£163	£163	£163	£170	£183	£205	£193	£203	£203	£220	£215	£210
EHN-A/C	£205	£218	£228	£228	£235	£230	£245	£245	£300	£253	£263	£278	£293	£285	£298
3 Piece Combinations B3/1, B1/3 **EHN-A**	£214	£218	£225	£244	£244	£244	£255	£274	£308	£289	£304	£304	£330	£323	£315
EHN-A/C	£308	£327	£342	£342	£353	£345	£368	£368	£450	£379	£394	£417	£439	£428	£447
4 Piece Combinations B2/2 **EHN-A**	£285	£290	£300	£325	£325	£325	£340	£365	£410	£385	£405	£405	£440	£430	£420
EHN-A/C	£410	£435	£455	£455	£470	£460	£490	£490	£600	£505	£525	£555	£585	£570	£595
6 Piece Combinations B3/2, B2/3 **EHN-A**	£428	£435	£450	£488	£488	£488	£510	£548	£615	£578	£608	£608	£660	£645	£630
EHN-A/C	£615	£653	£683	£683	£705	£690	£735	£735	£900	£758	£788	£833	£878	£855	£893

*ELV, ELV/C - SLATE AND FLAT TILES IN CONSERVATION STYLE.
EZV-A, EZV-A/C- PROFILED TILES AND METAL ROOF UP TO 45 MM DEPTH.
EPV, EPV/C - PLAIN TILES, SHINGLES.
NOTE: THE DISTANCE BETWEEN WINDOWS JOINED HORIZONTALLY AND VERTICALLY IS NORMALLY 10CM. IF EXTERNAL SHUTTERS ARE INSTALLED ON WINDOWS INSTALLED VERTICALLY, A GAP OF AT LEAST 20CM IS REQUIRED. OTHER SIZED GAPS CAN BE MANUFACTURED FOR FURTHER INFORMATION PLEASE CONTACT CUSTOMER SERVICES OR EMAIL.
THE STANDARD DISTANCE BETWEEN WINDOWS POSITIONED SIDE BY SIDE IS 10CM -THE OPTION OF 18MM/40MM AND 50MM GUTTER CHANNELS ARE AVAILABLE IN CERTAIN CIRCUMSTANCES - PLEASE CONTACT THE FAKRO SALES OFFICE FOR FURTHER DETAILS

B2/1
horizontal combination

B1/2
vertical combination

B2/2
block combination

Flashing systems are ready made flashing combinations for joining windows in the groups: horizontally, vertically, and in a block. The distance between the windows joined horizontally and vertically is normally 10cm. There are seven modules in the FAKRO combination system to cater for any layout you may require.

FAKRO roof window accessories combine quality, choice of design and ease of fitting with lasting performance. A wide range of styles and colours ensure that you can select blinds to suit any interior décor. Venetian, pleated, blackout and ARP roller blinds are supplied in aluminium cassettes that fit within the window sash to provide an effective light screen. Material swatches can be seen in greater detail in the FAKRO Roof Window Accessories brochure which can be downloaded from **www.fakro.co.uk**. In addition, you can request a colour swatch by phoning our Sales Office on 01283 554755 and order using our online shop.

Venetian blind AJP

- ability to control the amount of incoming light to the room
- control the direction of light entering by changing the angle of the slats

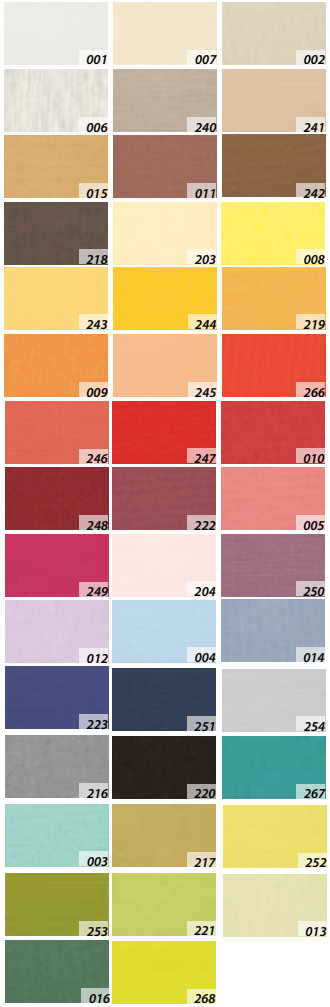
I

II

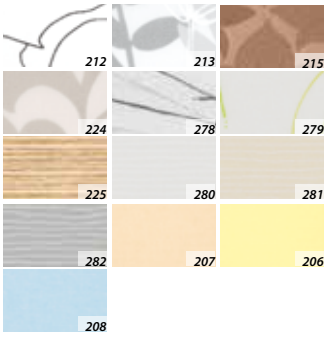
Roller blind standard ARS

- protection from light
- can position the blind in three different positions

I



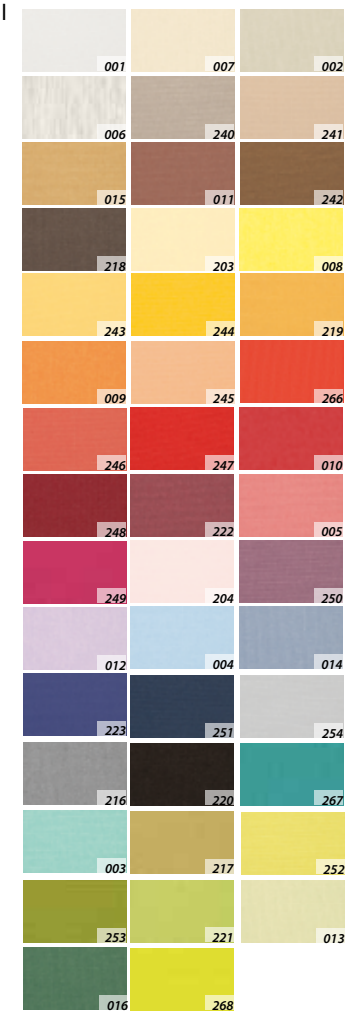
II



Dimming roller blinds ARP

- protection against sunlight during sunny days
- possibility to lock the blind in any position

I



You will see 3 price groups: Price Group I consists predominantly of plain colours while those in Groups II and III offer a wide range of patterns. With external awning blinds, Group II products are also made using a closer density fabric which greatly reduces the amount of light which can pass through it.
Note: When looking at blinds on any website other than www.fakro.co.uk we recommend that you check with us as some show our logo but DO NOT sell genuine FAKRO products.

Blackout blinds ARF Sunset

- very good protection from sunlight
- the possibility of darkening the room
- possibility to lock the blind in any position
- partial protection from solar heat
- Also available for flat roof windows type C and F. With manual control (ARF/D) and wireless Z wave electric control (ARF/D Z-Wave). See page 60.

A children's room is a special place in every home which deserves a particular attention. It should not only be functional, but above all friendly to the youngest. Blackout blinds ensure harmony with the décor of any room and protect it from over-heating, while your kids can enjoy comfortable conditions both for playing and learning.
Having children in mind, we have created a unique collection of DreamWorks&Fakro blinds.
Characters from such movies as 'Trolls', 'How to Train Your Dragon', 'Kung Fu Panda' or 'Penguins of Madagascar' will make your children able to invite to the room their favourite heroes.

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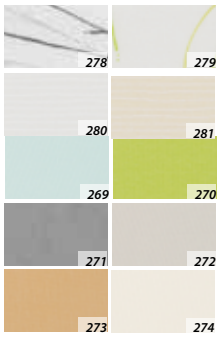
DREAMWORKS TROLLS © 2017 DREAMWORKS ANIMATION LLC. ALL RIGHTS RESERVED.
DREAMWORKS PENGUINS OF MADAGASCAR © 2017 DREAMWORKS ANIMATION LLC. ALL RIGHTS RESERVED.

UNDER APPROVAL PROCESS.
PLEASE CONSULT YOUR FAKRO REPRESENTATIVE FOR AVAILABLE MOTIFS, SIZES AND ORDER PROCESSING TIME.
PHOTO PRESENTED FOR ILLUSTRATIVE PURPOSES ONLY.
PATTERNS AND COLOURS MAY DIFFER FROM THE ACTUAL PRODUCT.

II

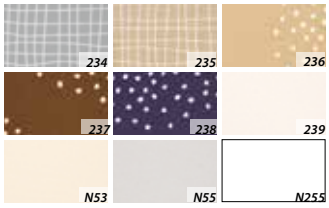
III



I

II

III



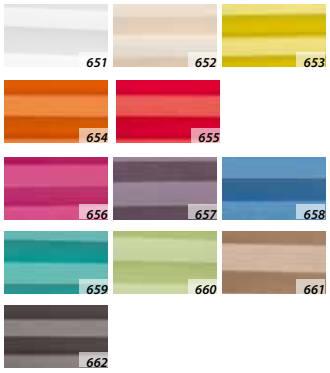
PATTERNS N53, N55 AND N255 ARE FIRE RETARDANT FABRIC

INTERNAL ACCESSORIES

Pleated blinds APS

- softness and diffusion of light
- possibility to lock the blind in any position
- top-down system- ease of operation by the use of the upper and lower bar

I

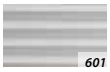


II

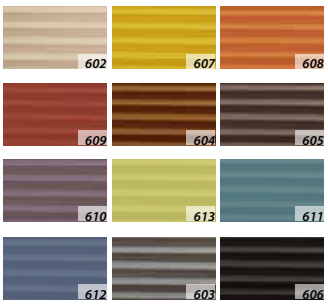
Pleated blinds APF

- softness and diffusion of light
- possibility to lock the blind in any position
- top-down system- ease of opera tion by the use of the upper and lower bar

I



II



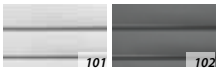
Insect screen AMS

- protection against insects
- minimum shading of the room
- can be installed with other internal and external accessories

EXTERNAL ACCESSORIES

External roller shutter ARZ

- effective protection against burdensome heat
- reducing heat loss in winter
- darkening the room
- makes break-in attempts more difficult



Awning blind AMZ

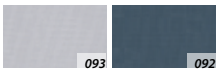
8 times more effective

- **8 times more efficient against room overheating**
- optimal protection against room overheating
- effective shading of the interior while providing visibility
- convenient, the awning blind can cover the window for a whole summer without the need to roll it up and down every day
- Also available for flat roof windows type C with Z wave control (AMZ/C Z-Wave) and type F (AMZ/F Solar) powered by solar batteries. See page 71.

I

II

III



Awning blind AMZ SOLAR

INTERNAL ACCESSORIES

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
AJP-Z-Wave I Venetian *Group I (Electric)*	-	-	£272	£272	£275	£275	£277	£280	£285	£282	£285	£288	£292	£285	£292
AJP-Z-Wave II Venetian *Group II (Electric)*	-	-	£282	£282	£285	£285	£285	£292	£295	£292	£297	£297	£308	£295	£303
AJP I Venetian *Group I*	£64	£66	£69	£69	£74	£71	£76	£81	£83	£82	£86	£89	£94	£86	£120
AJP II Venetian *Group II*	£72	£80	£83	£83	£88	£83	£88	£93	£101	£99	£104	£104	£122	£104	£127
ARS I Roller *Group I*	£40	£40	£43	£43	£44	£46	£47	£48	£50	£49	£50	£57	£59	£57	£59
ARS II Roller *Group II*	£64	£65	£77	£78	£79	£81	£82	£83	£89	£87	£89	£93	£95	£91	£93
ARP I Roller *Group I*	£62	£62	£75	£75	£75	£78	£78	£78	-	£86	£86	£93	£98	£93	-
ARP II Roller *Group II*	£67	£67	£81	£81	£81	£84	£84	£84	-	£93	£93	£101	£109	£101	-
ARP-Z-Wave I Roller *Group I (Electric)*	£201	£204	£206	£206	£211	£211	£216	£219	-	£221	£224	£226	£232	£226	-
ARP-Z-Wave II Roller *Group II (Electric)*	£213	£216	£218	£218	£221	£221	£226	£228	-	£228	£236	£236	£241	£236	-
ARF-Z-Wave I Blackout *Group I (Electric)*	£203	£205	£208	£208	£213	£213	£218	£221	£226	£223	£226	£228	£234	£228	-
ARF-Z-Wave II Blackout *Group II (Electric)*	£210	£212	£215	£215	£218	£218	£222	£225	£234	£226	£232	£234	£238	£234	-
ARF-Z-Wave III Blackout *Group III (Electric)*	£218	£221	£223	£223	£226	£226	£234	£236	£241	£236	£241	£244	£246	£244	-
ARF I Blackout *Group I*	£70	£71	£86	£86	£86	£88	£91	£94	£103	£103	£103	£106	£120	£106	£120
ARF II Blackout *Group II*	£81	£81	£93	£93	£93	£96	£99	£103	£111	£111	£114	£117	£130	£117	£130
ARF III Blackout *Group III*	£86	£86	£101	£101	£101	£103	£106	£112	£125	£120	£125	£127	£142	£127	£142
APS I Pleated *Group I*	£57	£59	£63	£63	£65	£68	£70	£75	£81	£78	£81	£83	£88	£86	£109
APS II Pleated *Group II*	£62	£65	£70	£70	£73	£76	£78	£86	£96	£91	£96	£99	£104	£101	£128
APF I Pleated *Group I*	£95	£95	£117	£117	£117	£120	£124	£132	£140	£140	£140	£145	£162	£145	£162
APF II Pleated *Group II*	£105	£105	£125	£125	£125	£130	£134	£140	£155	£150	£155	£158	£178	£158	£178
AMS 200 Insect screen	£100	£102	£105	£105	£105	£112	£112	£112	-	£118	£118	£118	£118	£123	-
AMS 240 Insect screen	-	-	-	£107	£107	£115	£115	£115	£115	£121	£121	£136	£136	-	£121

NOTE: ONLY INTERNAL ACCESSORIES AVAILABLE FOR FYP, FDY ROOF WINDOWS. MORE INFORMATION AVAILABLE UPON REQUEST.
ELECTRIC BLINDS NEED AN ELECTRICAL KIT PURCHASED AS WELL ON A MANUAL WINDOW. NOT ALL INTERNAL AND EXTERNAL BLINDS FOR FTT U6 AND FTTU8 WINDOWS ARE AVAILABLE MORE INFORMATION UPON REQUEST.
NOTE: BLINDS FOR FTT U5 ROOF WINDOWS MUST BE ORDERED SPECIFICALLY FOR THOSE WINDOWS AS STANDARD BLINDS WILL NOT FIT.

EXTERNAL ACCESSORIES

AWNING BLINDS FOR PIVOT WINDOWS (FT, PT) AND TOP HUNG AND PIVOT WINDOWS (FP, PP PRESELECT®)

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
AMZ I Group I	£57	£57	£60	£60	£68	£70	£70	£73	£99	£78	£86	£88	£96	£94	£104
AMZ II Group II	£62	£62	£67	£67	£75	£78	£78	£86	£109	£91	£96	£102	£109	£104	£120
AMZ SOLAR Group I	£500	£505	£514	£514	£525	£525	£530	£538	£548	£538	£548	£550	£560	£552	£566
AMZ SOLAR Group II	£525	£530	£540	£540	£552	£552	£556	£565	£575	£565	£575	£578	£588	£580	£594

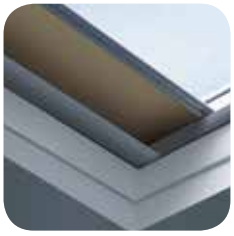
EXTERNAL ROLLER SHUTTER: ARZ-H FOR PIVOT WINDOWS (FT), ARZ-E FOR PIVOT WINDOWS (FT, PT) AND TOP HUNG AND PIVOT WINDOWS (FP, PP PRESELECT®)

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
ARZ-H	£294	£300	£308	£308	£321	£317	£331	£331	£355	£344	£358	£361	£374	£365	£380
***ARZ Z-Wave (No Switch)**	£331	£338	£346	£346	£362	£356	£374	£384	£400	£390	£403	£406	£420	£410	£425
***ARZ - Solar**	£613	£624	£634	£634	£650	£650	£660	£674	N/A	£682	£692	£698	£716	£698	N/A

* RETAINING 20 CM DISTANCE BETWEEN THE WINDOWS IN VERTICAL POSITION

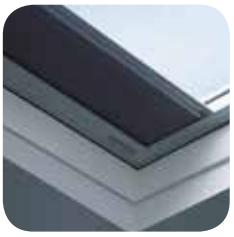
INTERNAL - **BLINDS**

- roller blind protects against harsh sunlight and provides a decorative element.
- Provides a pleasant shaded interior on even the sunniest day.
- With the use of guides, the blind can be positioned at any point giving gradual reduction of incoming light, until the blackout.
- Available in two versions of control:



ARF/D

Control:
- manual.



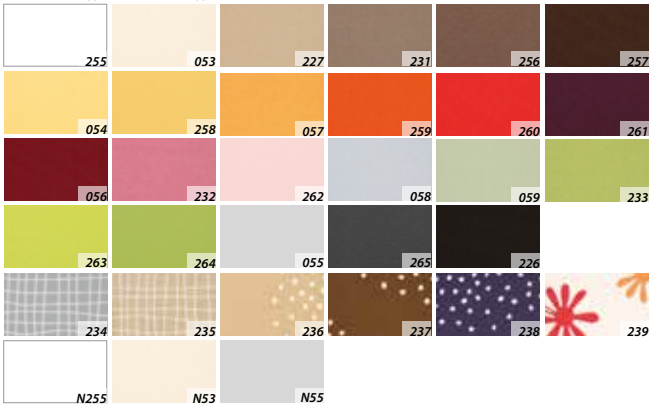
ARF/D Z-Wave

- in wireless Z-Wave system,
- powered for the mains.

Control:
- remote control or wall switch.

I

II

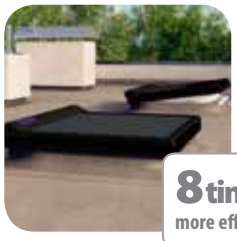


III

THE MATERIAL SAMPLES PRINTED CAN DIFFER IN COLOUR FROM THE ACTUAL PRODUCT.

EXTERNAL- **AWNING BLINDS**

- Awning blind absorbs solar radiation before it reaches the glass and emits heat outside, thus on sunny days protects interior against burdensome heat.
- Awning blind- up to 8 times more effective protection against heat when compared with blackout blind.



AMZ/F Solar

- for roof windows type F,
- comfortable use, automatic operation of the awning blind (the photovoltaic panel works as a sensor, which reacts to solar radiation In bright sunlight the awning blind unrolls automatically and rolls up during the cloudy weather),
- powered by solar batteries.

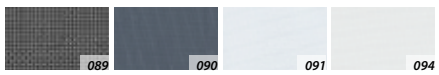
Control :
- automatic operation or remote control.

AMZ/C Z-Wave

- for roof windows type C,
- in wireless Z-Wave system,
- an innovative system enables installation of the awning blind below the window's dome,
- powered for the mains.

Control:
- remote control or wall switch.

I



Material with 0% transparency

II

Material with 1% transparency

THE MATERIAL SAMPLES PRINTED CAN DIFFER IN COLOUR FROM THE ACTUAL PRODUCT.

size [cm]	60x60	60x90	70x70	80x80	90x90	90x120	100x100	120x120	140x140	100x150	120x220
symbol of size	01	02	03	04	05	06	07	08	09	10	11
ARF/D I	£70	£70	£75	£80	£86	£94	£94	£96	£115	£102	N/A
ARF/D II	£78	£78	£83	£88	£94	£105	£105	£107	£118	£107	N/A
ARF/D III	£88	£88	£96	£104	£106	£120	£120	£124	£136	£124	N/A
ARF/D I Z-Wave	£262	£262	£268	£270	£278	£282	£282	£305	N/A	N/A	N/A
ARF/D II Z-Wave	£270	£270	£275	£278	£285	£290	£290	£312	N/A	N/A	N/A
ARF/D III Z-Wave	£275	£275	£284	£286	£294	£295	£295	£320	N/A	N/A	N/A
AMZ/F I Solar Flat Roof Group I	£590	£590	£610	£610	£625	£635	£625	£650	£820	£760	£965
AMZ/F II Solar Flat Roof Group II	£620	£620	£640	£640	£660	£670	£660	£685	£865	£805	£1 020
AMZ/C I Z-Wave Flat Roof Group I Electric	£302	£310	£315	£320	£336	£615	£345	£660	£685	£650	£760
AMZ/C II Z-Wave Flat Roof Group II Electric	£318	£325	£335	£338	£355	£645	£365	£690	£720	£680	£795

WHEN INSTALLING THE AMZ/C Z-WAVE ON DXC AND DMC WINDOWS, POWER SUPPLY AND REMOTE CONTROL HAVE TO BE PURCHASED ADDITIONALLY.

Z-WAVE ELECTRICAL CONTROL ELEMENTS

ZWS 12 £240

ZWS 230 £265

ZWS 12 / ZWS 230

Z-Wave motor used for operatng windows (controller and ZZ60 power supply have to be bought separately).

£70

ZWK 10

Z-Wave wall keyboard control can operate several receivers separately.

£70

ZWP 10

Z-Wave remote control, can operate several receivers separately or in groups.

ZWG 1 £140

ZWG 3 £152

ZWG 1 / ZWG 3

Z-Wave touch keyboard can operate one receiver separately or in groups. Available in triple version.

£120

ZWL 1

Button and radio module installed in flush mounted box, used for remote control of single Z-Wave receiver or in groups. Available in double and triple version.

ZZ 60 £88

ZZ 60H £88

ZZ 60 / ZZ 60h

Impulse power supply 15VDC to power electric receivers (available in hermetic casing ZZ60h)

£80

ZWMA 1

A Z-Wave daptation module used to control one receiver separately or in groups by use of wall button or other control system (230V AC).

£162

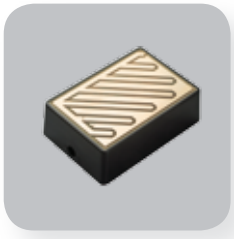
ZWMA

Z-Wave adaptation module used to control up to four receivers separately or in groups by the use of wall button or other control system (230V AC).

£124

ZWMP

Weather module used to control Z-Wave receivers by the use of rain sensor ZRD, wind sensor ZWD or smoke sensor ZFD.



£72

ZRD

Sensor in co-operation with ZWMP module, in case of rainfall ensures automatic closing of Z-Wave windows.

£58

ZWD

Sensor in co-operation with ZWMP module, in case of strong gusts of wind automatically closes Z-Wave windows.

£76

ZFD

Sensor in co-operation with ZWMP module, in case of detecting visible smoke, automatically opens Z-Wave windows.

ACCESSORIES FOR OPENING WINDOWS

ZBH
- Handle with lock

ZBB
- Window restrictor

ZBL
- Window lock

ZSZ
- Control rod for operating awning blinds, length 150cm

ZST
- Telescopic control rod enables the user to operate ARS, ARF, AJP, AMS. It also enables easy opening and closing of windows

ZSD
- Universal telescopic rod for opening DMC, DMF flat roof windows as well as internal blinds intended for these windows

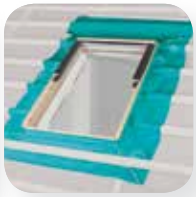
ACCESSORIES FOR OPENING WINDOWS

ZBH	ZBB	ZST	ZSP	ZSZ	ZBL	ZSD
£32	£35	£37	£27	£32	£32	£40

INSTALLATION ACCESSORIES

FAKRO installation accessories guarantee quick and easy connection between the roof window and the roof construction. Using XDP insulating set and XDS air-tight flashing ensures the complete protection of a fitted roof window. The installation accessories reduce the risk of thermal bridging and guarantee the proper draining of any moisture around the FAKRO window. Using original installation accessories will allow the proper use of the windows for many years.

XDK (XDP + XDS)
set of insulating collars

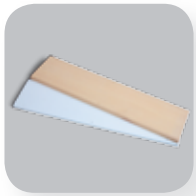


XDP
insulation set

XDS
air tight collar

XLW
lining

XWT
insulation band



XSP, XSW
duet slats

INSTALLATION ACCESSORIES

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	78x160	94x118	94x140	114x118	114x140	134x98	94x160
size symbol	01	02	16	03	04	05	06	07	13	08	09	10	11	12	80
XDK	£52	£52	£52	£52	£52	£52	£52	£57	£62	£57	£57	£57	£57	£57	£62
XDP	£30	£30	£30	£30	£30	£30	£30	£33	£35	£33	£33	£33	£33	£33	£35
XDS	£31	£31	£31	£31	£31	£31	£31	£34	£36	£34	£34	£34	£34	£34	£36
XLW-F 40 & XLW-P 40	£106	£113	£115	£115	£123	£123	£128	£135	£150	£135	£140	£140	£145	£145	£155
XLW-F 30 & XLW-P 30	£90	£93	£95	£95	£100	£100	£105	£110	£125	£110	£115	£115	£120	£120	£130
XWT	£32	£32	£32	£32	£32	£32	£32	£37	£40	£37	£37	£37	£37	£37	£40
XSP, XSW (Horizontal)	£16	£16	£16	£16	£16	£19	£19	£19	£19	£21	£21	£24	£24	£26	£21

SOLAR PANELS

FAKRO solar panels can be installed either independently or together with FAKRO roof windows in visually appealing combinations using standard flashings. Solar panels are becoming increasingly popular as an eco-friendly way of harnessing the sun's energy to heat water.

FAKRO VENTED SOLAR THERMAL SYSTEM KITS

external dimensions [cm]	114x206	114x140	114x118	78x140
combinations				
solar system kit	B3/1 44	B3/1 11	B3/1 10	B3/1 07
Collector area (m^2)	7.08	4.83	4.05	3.27
Absorption area (m^2)	6.21	4.08	3.39	2.73
	£4820	**£4180**	**£4050**	**£3670**

INCLUDES: COLLECTORS, FLASHING, SEALS, CYLINDER, PUMP, CONTROL UNIT, EXPANSION TANK, GLYCOL, MIXING VALVE, FLOW & RETURN PIPES (10M), COLLECTOR CONNECTOR
OTHER SOLAR SYSTEMS AVAILABLE

FAKRO VENTED ROOF ONLY SOALR THERMAL SYSTEM KITS (SKW)

external dimensions [cm]	114x206	114x140	114x118	78x140
combinations	B3/1 660ZH	B4/1 660ZK	B4/1 660ZN	B5/1 660ZT
combinations		B2/2 660ZL	B2/2 660ZP	
size symbol	44	11	10	07
Collector area (m^2)	7.08	6.44	5.40	5.45
Absorption area (m^2)	6.21	5.44	4.52	4.55
	£2270	**£2290**	**£2040**	**£2490**

INCLUDES: COLLECTORS, FLASHING, SEALS, FLOW & RETURN PIPES (1.8M), COLLECTOR CONNECTOR
POSSIBLE INSTALLATION RANGE 300 - 900
OTHER ROOF ONLY SOLAR SYSTEMS AVAILABLE

LIGHT TUNNELS

In order to supply interior with natural light where there are no opportunities to install roof or vertical windows, an effective solution can be a light tunnel. Dimly lit interiors without access to the natural light can become light and comfortable to use. There are a few types of light tunnels available: SRT with rigid light transmitting tube and SLT with flexible light transmitting tube. Flashings enable installation of light tunnels in nearly every roof covering and even in flat roofs.

Note: SLT Plus Light tunnel includes 300cm of tubing, flashing and a light, bulb not included. Please specify which flashing (slate or tile) when ordering. SRT Plus Light tunnel includes the tunnel, flashing and a light, bulb not included. Please specify which flashing (slate or tile) when ordering.

SLT

SLT with standard flashing

Diameter/ Tube length [cm]	35/200	55/200
	£250	**£320**

SLT Plus with lamp and standard flashing

Diameter/ Tube length [cm]	35/300	55/300
	£280	**£355**

SRT

SRT wth standard flashing

25/200	35/200
£265	**£305**

SRT Plus with lamp and standard flashing

25/200	35/200
£300	**£340**

SF_/SR_

SF with standard flashing

350	550
£265	**£365**

SR with standard flashing

250	350	550
£275	**£370**	**£545**

SF-L with additional illumination and standard flashing

350	550
£275	**£380**

SR-L with additional illumination and standard flashing

250	350	550
£290	**£385**	**£570**

NEW

SRF/SFF

SRF for flat roof with rigid tube

350	550
£280	**£600**

SFF for flat roof with flexible tube

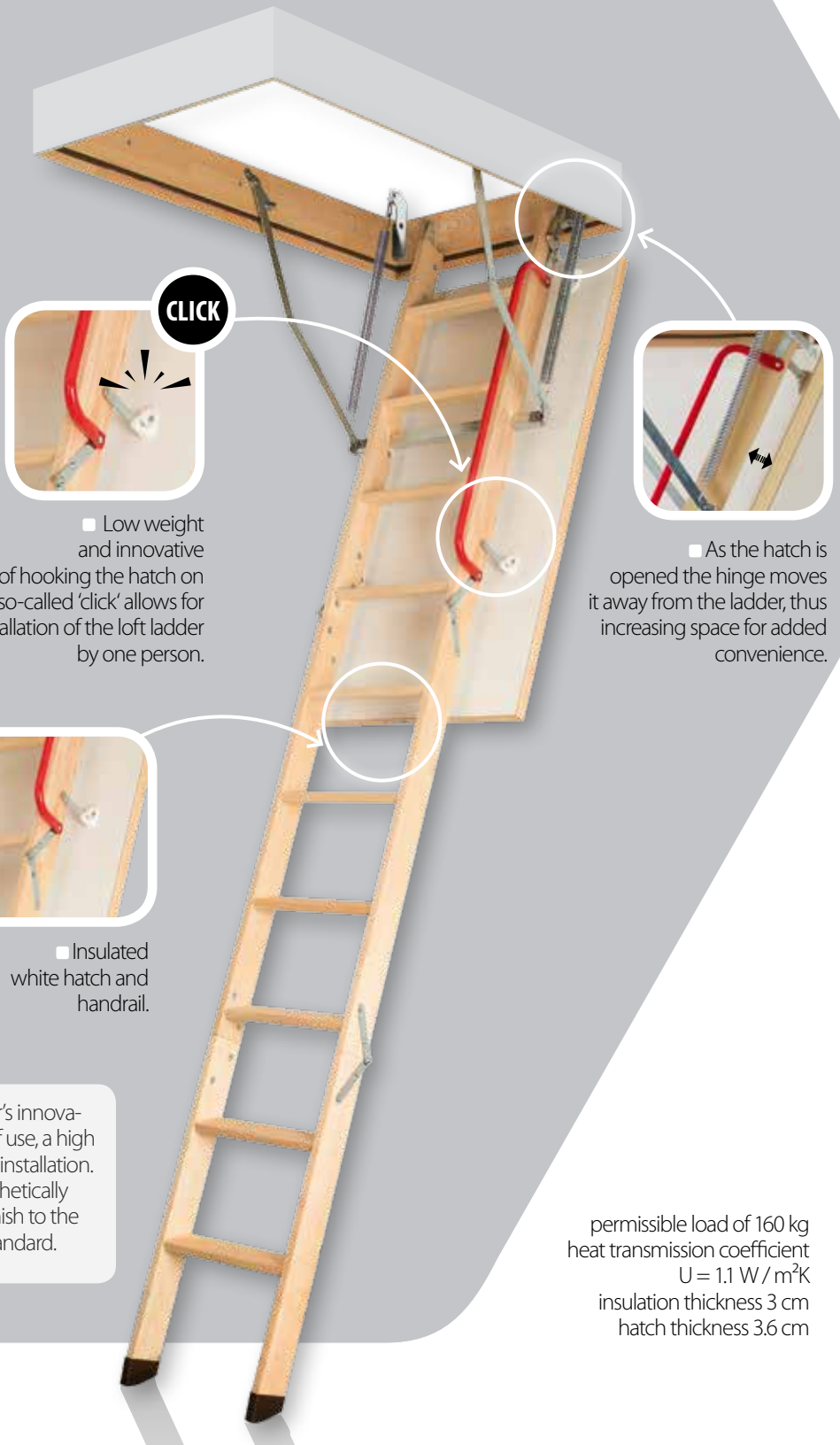
350	550
£205	**£515**

ALL PRICES EXCLUDE VAT

WOODEN FOLDING SECTION LOFT LADDERS

STANDARD EN 14975

U=1.1 W/m²K



Low weight and innovative way of hooking the hatch on the so-called 'click' allows for installation of the loft ladder by one person.

As the hatch is opened the hinge moves it away from the ladder, thus increasing space for added convenience.

Insulated white hatch and handrail.

The **LWK Komfort** ladder's innovative design ensures ease of use, a high insulation value and quick installation. It is equipped with an aesthetically pleasing, smooth white finish to the hatch, and a handrail as standard.

permissible load of 160 kg
heat transmission coefficient
U = 1.1 W / m²K
insulation thickness 3 cm
hatch thickness 3.6 cm

LWK

KOMFORT

- stile ends (only in 3-section version)
- handrail
- peripheral seal
- white hatch
- non-slip treads set flush with ladder strings
- easy installation

LWK KOMFORT LADDER DIAGRAM

LWK Komfort LOFT LADDER DIMENSIONS

Ceiling opening dimensions [cm]	AxB	55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	60x130	60x140	70x130	70x140
Room height [cm]	H	280												305			
Box external dimensions [cm]		53x109.4	58x92.4	58x98.4	58x109.4	58x118.4	58x128.4	68x92.4	68x98.4	68x109.4	68x118.4	68x128.4	68x138.4	58x128.4	58x138.4	68x128.4	68x138.4
Internal box dimensions [cm]		49x105	54x88	54x94	54x105	54x114	54x124	64x88	64x94	64x105	64x114	64x124	64x134	54x124	54x134	64x124	64x134
Folded ladder height [cm]	K	27	35		27			35		27							
Swing space [cm]	R	153	128		153	156		128		153	156			175			
Distance after ladder unfolding [cm]	C	113	114		113	120		114		113	120			135			
Hatch retraction after opening [cm]	P	4															
Box height [cm]		14															
Number of segments		3	4		3			4		3							

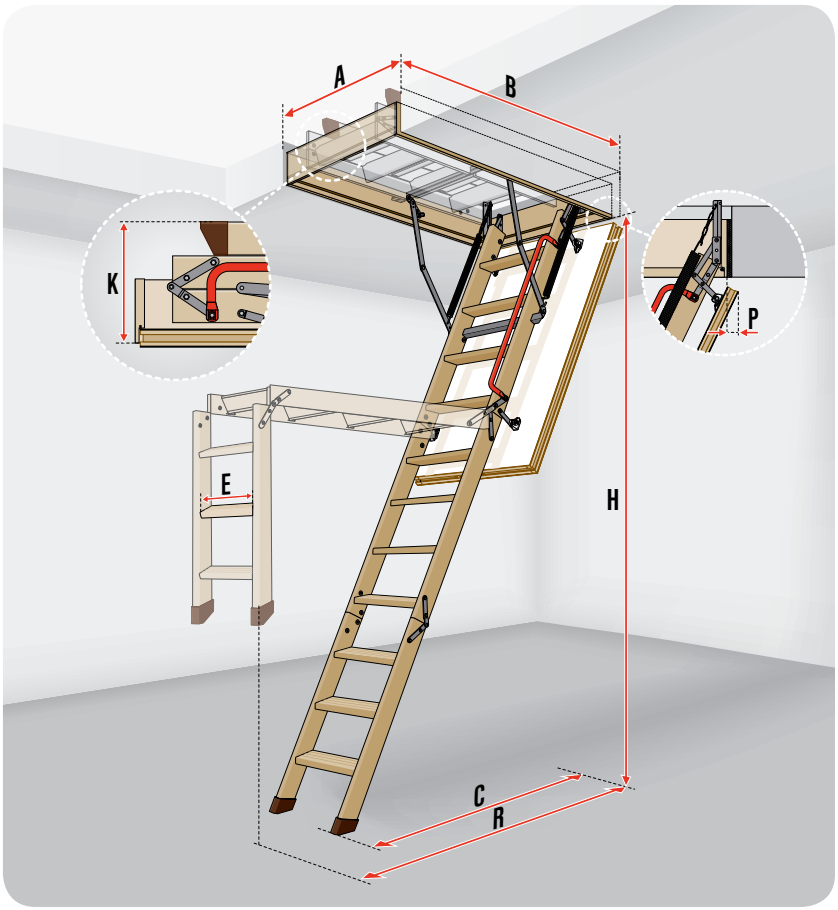
LADDER PARAMETERS

Tread length [cm]	E	30	34
Tread width [cm]		8	
Distance between treads [cm]		25	
Tread thickness [cm]		2	

LOFT LADDER DIMENSIONS

Commercial sizes [cm]		55x111	60x94	60x100	60x111	60x120	60x130	70x94	70x100	70x111	70x120	70x130	70x140	60x130	60x140	70x130	70x140
Room height [cm]	H	280												305			
Code		863821	863807	863806	863804	863801	863802	863817	863816	863814	863811	863812	863813	863851	863852	863853	863854

SEE: COMPLETE GUIDE TO LOFT LEADERS 2017



LOFT LADDERS

FAKRO 3 and 4-part folding loft ladders have been designed to combine exceptional quality and value with ease of installation and use. Timber ladders are made exclusively using the same close-grain, pine as that used for FAKRO roof windows and supplied either with an integral 36mm insulated hatch (U-value of 1.1 W/m^{2}K) or, with the **LTK Energy**, a 66mm hatch (U-value 0.68W/m^{2}K). Pine ladders have an edge-sealed pine frame and an adjustable spring mechanism which makes opening and closing easy and locks the ladder in position when open.
Hatches are of white or beige HDF while treads, which have grooves cut into them for added safety, are fitted to the legs using dovetail joints. Up to 13 standard hatch options are available, with non-standard sizes available for the **LWS Smart** and **LWK Komfort**.

The **LMF** folding metal loft ladder offers an exceptional fire rating of 120 minutes. Specially designed hinges and springs ensure that it can be opened and closed quickly while providing a load bearing capability of up to 200kg. Installed in the same manner as our pine ladders, the **LMF** is fitted with a steel supporting frame and fully adjustable legs. 13cm wide anti-slip treads offer improved safety while an additional step at the top provides greater convenience when exiting the loft.

Range of optional accessories available. See our loft ladder brochure for details

Loft balustrade LXB-U

Upper hatch LXW

L-shaped combination door DWK, DWT, DWF

Finishing lining slats LXL-P/W, LXL-PVC

LWK Komfort

LTK Energy

LMF

LST

WINDOW SIZE GUIDE

Simply check the height and width dimensions for your chosen window, and see the choice of products available based on the U3 glazing unit.

HEIGHT in cm \ WIDTH in cm	55	66	78	94	114	134
60			FNP *	FNP *	FNP *	FNP *
78	FTP-V PTP	FWR FWL FTP-V PTP-V PTP	FNP/D * FTP-V PTP-V PTP	FNP/D * FTP-V PTP-V PTP	FNP/D * FTP-V PTP-V PTP	FNP/D * FTP-V PTP-V PTP
98	FTP-V FPP-V PTP PPP-V	FTP-V FPP-V PTP PPP-V FWR FWL	FTP-V FPP-V PTP PPP-V FWR FWL	FWL	FTP-V PTP-V PTP	FTP-V FPP-V
118	FTP-V FPP-V PTP PPP-V	FTP-V FPP-V PTP PPP-V FWR FWL	FTP-V FPP-V PTP PPP-V FWR FWL	FTP-V FPP-V PTP PPP-V FWR FWL	FTP-V FPP-V PTP FSP FWR FWL	FTP-V PTP-V PTP
140	FTP-V FPP-V PTP PPP-V	FTP-V FPP-V PTP PPP-V	FTP-V FPP-V PTP PPP-V FYP-V FHP FWR FWL	FTP-V FPP-V PTP PPP-V FYP-V FHP FWR FWL	FTP-V FPP-V PPP-V FSP	
160			FYP-V FTP-V PTP-V PTP FPP-V	FYP-V FTP-V PTP-V ** PTP **		
180			FYP-V	FYP-V		
186			FDY-V	FDY-V		
206			FDY-V FYP-V	FDY-V FYP-V		
235			FDY-V ***	FDY-V ***		
255			FDY-V ***	FDY-V *** FGH-V P2		

Flat Roof Windows

HEIGHT in cm \ WIDTH in cm	78	94	114
60	BDL BDR BXP	BXP	BXP
75	BDL BDR BXP	BDL BDR BXP	
95	BDL BDR	BDL BDR	BDL BDR

HEIGHT in cm \ WIDTH in cm	46	54
55	WGT	
61	WGI/C	
75	WGT WGI	
98		WLI/C

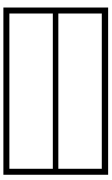
HEIGHT in cm \ WIDTH in cm	55	66	78	94	114	134
78	EFW					
98	EFW	EFW	EFW			EFW
118		EFW	EFW	EFW	EFW	
140			EFW	EFW	EFW	

Fakro Light Tunnels

FAKRO Light Tunnels are available with either flexible or rigid ducting. Either product may also be purchased with an abutment accessory for fitting on flat roofs.

Conservation Roof Windows

FAKRO supplies the widest range of products and sizes in conservation style. See each section in the price list for full details.



NOTE: THE SIZES NOT STATED IN THE PRICE LIST AVAILABLE TO INDIVIDUAL ORDERS. PRICES ON REQUEST.

* NON-OPENING WINDOWS, PRICES ON REQUEST
** PTP-V P2, PTP P2 RECOMMENDED FOR THE ROOFS WITH PITCH FROM 25 DEGREE
*** AVAILABLE TO INDIVIDUAL ORDERS. PRICES ON REQUEST

FIRST ON THE UK MARKET

FLASHINGS
QUICK REFERENCE
INSIDE BACK COVER

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