



# ROOF WINDOWS

## PRODUCT SELECTOR AND PRICE LIST

1st MAY 2016



FLASHINGS  
QUICK REFERENCE  
INSIDE BACK COVER

**FAKRO®**





# 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 performance in relation to the Code for Sustainable Homes, 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

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/m²K, 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.

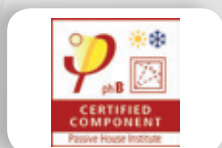
FAKRO roof windows can be manufactured in any colour from the RAL classic palette. That's over 200 colours customers can specify to special order for their chosen projects. Our standard natural pine, white or pine PVC and white PU coated roof windows from stock in just 3 days.



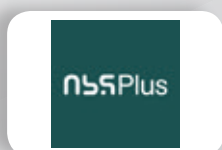




# Certificates



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<sup>2</sup>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.



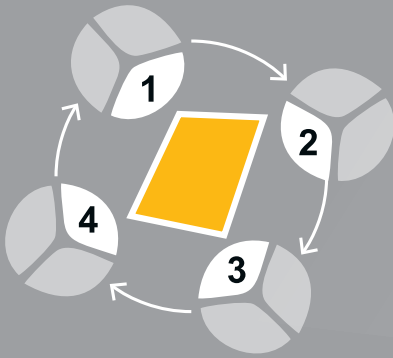
CE marking provides a passport that enables a construction product, irrespective of its origin, to be legally placed on the market of all EU member states. Unlike some manufacturers, FAKRO declares full details of performance for all points which make up a CE mark, yet more evidence that our products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



#### 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



#### GREATER WINDOW TIGHTNESS IN TERMS OF AIR PERMEABILITY

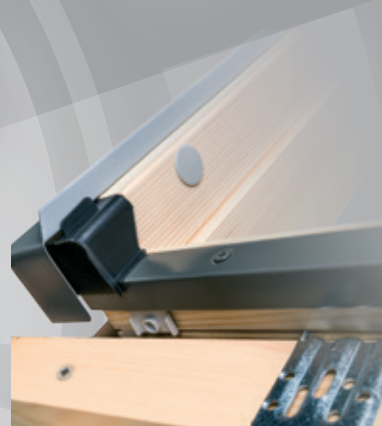
Windows manufactured using **thermoPro** technology feature 3<sup>rd</sup> and 4<sup>th</sup> tightness class according to EN12207, thus reducing the amount of air penetrating into the room. It is particularly important for mechanical ventilation.





## 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

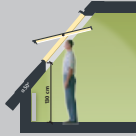
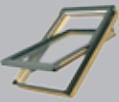
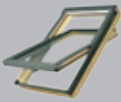
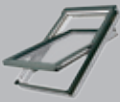
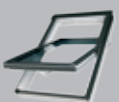

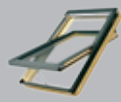
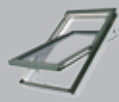


New brackets facilitate installation work and increase the ability to adjust roof windows during their installation. In addition, the use of **Torx screws** streamlines installation process of roof windows.

**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.

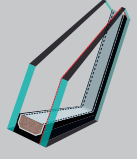
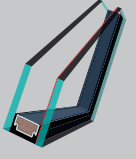
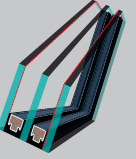
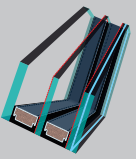
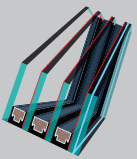

**Top hung and pivot dual function roof windows** provides total flexibility of use. When open, the top hung function provides an unrestricted field of view at a lower height than a centre pivot window while centre pivot operation enables the sash to be rotated through 180° to clean the outer pane from within the room. A choice of natural pine, white PU-coated pine 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-VU3	FTP-VU5	FTU-VU3	PTP-VU3	PTP U3	FTP-VU3 Z-Wave	FTU-VU3 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	non-vented	V40P	V40P	non-vented	non-vented
air inlet air flow	up to 49 m³/h	up to 49 m³/h	up to 49 m³/h	up to 41 m³/h	—	up to 49 m³/h	up to 49 m³/h	—	—
glazing	double	triple	double	double	double	double	double	triple	quadruple
U <sub>g</sub> (wg EN 673)	1.0W/m²K	0.5W/m²K	1.0W/m²K	1.0W/m²K	1.0W/m²K	1.0W/m²K	1.0W/m²K	0.5W/m²K	0.3W/m²K
U <sub>w</sub>	1.2W/m²K	0.97W/m²K	1.2W/m²K	1.2W/m²K	1.2W/m²K	1.2W/m²K	1.2W/m²K	0.8W/m²K	0.58W/m²K
acoustic insulation	32dB	33dB	32dB	31 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

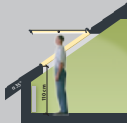
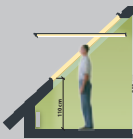



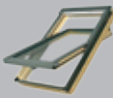
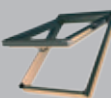
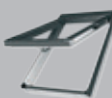
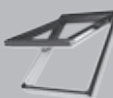
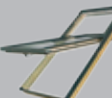



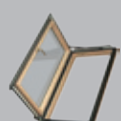
						
GLAZING UNIT	U2	U3	U5	U6	U8	P2
TECHNICAL SPECIFICATION	ENERGY SAVING	ENERGY SAVING	HIGHLY ENERGY EFFICIENT	HIGHLY ENERGY EFFICIENT	PASSIVE GLAZING	SAP
GLAZING	DOUBLE	DOUBLE	TRIPLE	TRIPLE	QUADRUPLE	DOU
INNER LAMINATED GLASS				✓(Class P2A)		✓



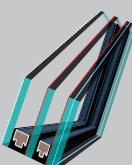
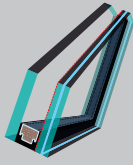
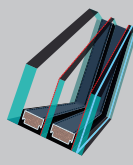
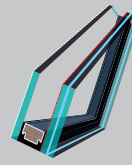
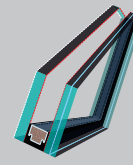
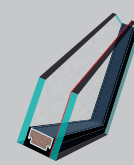
The **Balcony window** is the ultimate, modern twin sash window. With the top sash opening as a top hung window, the bottom sash with laminated internal glazing opens from the bottom to reveal built-in balustrades.

**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 U3 preSelect	FPU-V U3 preSelect	PPP-V U3 preSelect	FYP-V U3 proSky	FDY-V U3 Duet proSky	FGH-V P2 Galeria	BDL P2 BDR P2 BVPP P2	FWR U3 FWL U3
								
wood	wood	wood (white)	PVC	wood	wood	wood	wood	wood
V40P	V40P	V40P	V35	V40P	V40P	V40P	non-vented	non-vented
up to 49 m³/h	up to 49 m³/h	up to 49 m³/h	up to 41 m³/h	up to 49 m³/h	up to 28 m³/h	up to 28 m³/h	—	—
double	double	double	double	double	double	double	double	double
1.0W/m²K	1.0W/m²K	1.0W/m²K	1.0W/m²K	1.0W/m²K	1.0W/m²K	1.1W/m²K	1.0W/m²K	1.1W/m²K
1.2W/m²K	1.2W/m²K	1.2W/m²K	1.2W/m²K	1.2W/m²K	1.2W/m²K	1.5W/m²K	1.3W/m²K	1.4W/m²K
35 dB	32dB	32dB	32dB	32 dB	32 dB	35dB	37 dB	34 dB
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 window 15-55°	15-55°

A non-vented option can also be ordered for all windows

					
P5	R1	R3	P2	G6	O2
SAFE	SOUND REDUCING	SOUND REDUCING	ANTI-BURGLARY	SOLAR CONTROL	OBSCURE
TRIPLE	DOUBLE	TRIPLE	DOUBLE	DOUBLE	DOUBLE
✓	✓	✓	✓ (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?

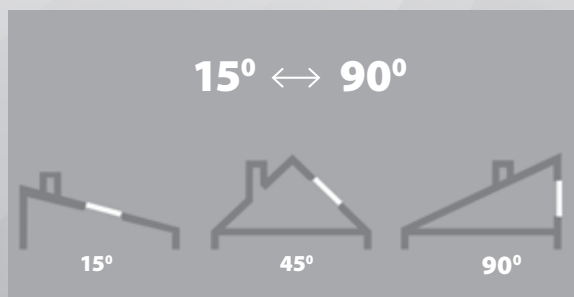
- For windows above head height you should use a laminated glass. If the glass shatters a plastic membrane between the two sheets of glass retain the shards.
- Energy efficient triple-glazed units ensure exceptional thermal efficiency and can almost eliminate heat loss altogether.
- Other glazing choices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

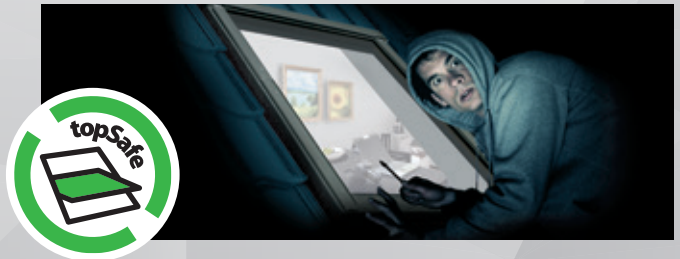
- Wireless technology is available to operate your roof windows.
- Z-Wave is a wireless protocol for communication between household appliances. It combines into a single network electric devices such as: lighting, thermostats, alarms, computers, telephones, air conditioning, electric windows and blinds.



# 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.





**Popular  
options**  
**FTP-V**  
**FTW-V**  
**PTP-V**  
**FTU-V**



## CENTRE PIVOT WINDOW - POPULAR OPTIONS IN WHITE &amp; NATURAL PINE

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
effective glazing area [m <sup>2</sup> ]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.75	0.92	0.95	1.16	0.92	0.75
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80

## WHITE

NEW

**FTW-V P2**  
(White Acrylic)  
P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2

**PTP-V P2**  
(White PVC)  
P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2

**FTU-V P2**  
(White PU Coated Pine)  
P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2

## NATURAL PINE

**FTP-V U3**  
U3 - Energy saving double glazed unit. Toughened outer pane. U value of window 1.2

**FTP-V P2**  
P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2

## OTHER GLAZING OPTIONS

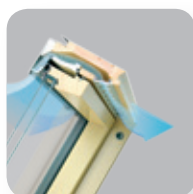
**FTU-V O2**  
(White PU Coated Pine)  
O2 - Obscure double glazed unit. U value of window 1.2

**FTP-V O2**  
O2 - Obscure double glazed unit. U value of window 1.2

**FTP-V/ FTP R1**  
R1 - Sound reducing double glazed unit.

**FTP-V P5**  
P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97

All windows available vented or non-vented (price on application).


**FTP-V**

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

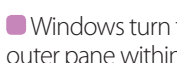

**FTW-V**

- 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

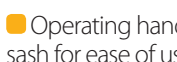
 FLASHINGS  
QUICK REF page 67  
IN DETAIL pages 52-55

 ACCESSORIES  
pages 56 - 62


■ 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**



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

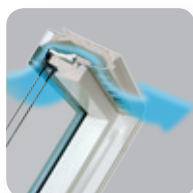
windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.75	0.92	0.95	1.16	0.92	0.75
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80

<b>FTU-V P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>FTU-V P5</b>	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>FTU-V O2</b>	O2 - Obscure double glazed unit. U value of window 1.2	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>FTU-V P2 Secure</b>	P2 Secure Anti-burglary double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>FTW-V P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>FTW-V P5</b>	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>FTW-V P2 Secure</b>	P2 Secure Anti-burglary double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	-	-	-	-	-	-	-	-	-	-	-	-	-

All windows available vented or non-vented (price on application).

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**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



■ 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**

# CENTRE PIVOT WINDOWS – PVC

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m <sup>2</sup> ]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.75	0.92	0.95	1.16	0.92	0.75
	size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80
<b>PTP-V P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£220	£232	£242	£245	£270	£252	£284	£316	£345	£368	£378	£400	£362	£388
<b>PTP P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£220	£232	£242	£245	£270	£252	£284	£316	£345	£368	£378	£400	£362	£388
<b>PTP O2</b>	O2 - Obscure double glazed unit. U value of window 1.2	£282	£300	£305	£315	£326	£326	£358	£410	£415	£435	£465	£500	£465	£555
<b>PTP-V O2</b>	O2 - Obscure double glazed unit. U value of window 1.2	£282	£300	£305	£315	£326	£326	£358	£410	£415	£435	£465	£500	£465	£555

All windows available vented or non-vented (price on application).

**FLASHINGS**  
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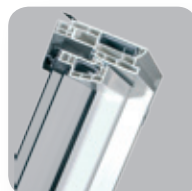
**ACCESSORIES**  
pages 56 - 62



## PTP-V

■ V35 air inlet

■ Suitable for every room including bathrooms and wet rooms



## PTP

■ Vent-free

■ Suitable for every room including bathrooms and wet rooms



■ 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



∞ Lifetime glazing unit hail resistance warranty



A woman with brown hair tied back, wearing a light blue button-down shirt and white pants, is sitting on a light-colored shaggy rug. She is holding a white smartphone in her right hand and looking up at it. The room has a vaulted ceiling with several large, rectangular skylights. The skylights have white frames and are partially open, revealing a bright blue sky with some clouds. The woman is sitting on a light-colored shaggy rug. To her right, there is a small, clear glass side table with a white cup on it. There are also some blue and white patterned pillows on the rug. The overall atmosphere is bright and airy.

## Electric Z-Wave Controlled Windows

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

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
effective glazing area [m <sup>2</sup> ]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.75	0.92	0.95	1.16	0.92	0.75
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80
<b>FTP-V P2 Z-Wave</b> P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£520	£532	£542	£554	£570	£552	£584	£616	£650	£668	£678	£730	£662	£688
<b>FTW-V P2 Z-Wave</b> P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£520	£532	£542	£554	£570	£552	£584	£616	£650	£668	£678	£730	£662	£688
<b>FTU-V P2 Z-Wave</b> P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£568	£582	£596	£602	£628	£608	£648	£684	£740	£748	£762	£800	£742	£774
<b>FTP-V P5 Z-Wave</b> 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	£800	-	-	-	-	-
<b>FTW-V P5 Z-Wave</b> 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	£800	-	-	-	-	-
<b>FTU-V P5 Z-Wave</b> P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£718	£732	£746	£750	£778	£758	£798	£834	£880	-	-	-	-	-

All windows available vented or non-vented (price on application).



## 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

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■ 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

**DISCONTINUED CENTRE PIVOT WINDOWS – ELECTRONICALLY OPERATED**  
PLEASE ASK FOR DETAILS

SIZE	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	134x140
	01	02	16	03	04	05	06	07	08	09	10	11	12	17
FTP-V/C U3 Electro	YES	YES	No	No	No	YES	No	No	No	No	No	No	No	No
FTP-V U3 Electro	YES	No	No	YES	YES	No	No	YES	No	No	No	No	YES	No
FTU-V U3 Electro	No	No	No	YES	No	No	No	No	No	No	No	No	YES	No
FTP-V P2 Electro	No	No	No	YES	No	YES	No	YES	No	YES	No	No	No	No
FTU-V P2 Electro	No	No	No	YES	YES	No	No	No	No	YES	YES	No	YES	YES
FTP-V/C P2 Electro	No	No	No	No	YES	No	No	No	No	No	No	No	No	No
FTU-V/C U3 Electro	No	No	No	No	No	YES	No	No	No	YES	No	No	No	No
FTP-V/C U5 Electro	No	No	No	No	No	No	No	No	No	No	No	No	YES	No
FTU-V/C U5 Electro	YES	No	No	No	No	No	No	No	No	No	No	No	YES	No





**FTP-V P2**  
Secure



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

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	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	0.75	0.92	0.95	1.16	0.92	0.75
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80

<b>FTP-V P2 Secure</b> (Natural Pine)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	<b>£352</b>	<b>£364</b>	<b>£383</b>	<b>£390</b>	<b>£404</b>	<b>£388</b>	<b>£420</b>	<b>£448</b>	<b>£480</b>	<b>£512</b>	<b>£522</b>	<b>£560</b>	<b>£506</b>	<b>£536</b>
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**NEW**

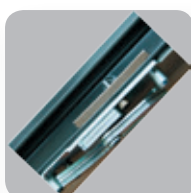
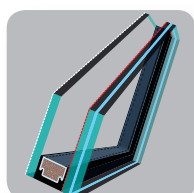
<b>FTW-V P2 Secure</b> (White Acrylic)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	<b>£352</b>	<b>£364</b>	<b>£383</b>	<b>£390</b>	<b>£404</b>	<b>£388</b>	<b>£420</b>	<b>£448</b>	<b>£480</b>	<b>£512</b>	<b>£522</b>	<b>£560</b>	<b>£506</b>	<b>£536</b>
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<b>FTU-V P2 Secure</b> (White PU Coated Pine)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	<b>£394</b>	<b>£410</b>	<b>£440</b>	<b>£445</b>	<b>£456</b>	<b>£436</b>	<b>£474</b>	<b>£510</b>	<b>£570</b>	<b>£582</b>	<b>£594</b>	<b>£670</b>	<b>£590</b>	<b>£622</b>
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All windows available vented or non-vented (price on application).  
FTP-V P2 is certified to EN 1627 class 2.

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## 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.



- 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

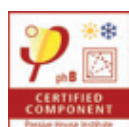


**FTT U8**  
**thermo**  
**FTT U6**  
**FTT R3**

# HIGHLY ENERGY - EFFICIENT ROOF WINDOWS

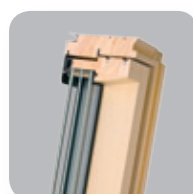
windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
effective glazing area [m²]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.75	0.92	0.95	1.16	0.92	0.75
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80
<b>FTT U8 Thermo</b> U8 - Passive quadruple glazed unit. U value of window 0.58*	-	£865	£908	£920	£965	£972	£1080	£1195	£1245	£1282	£1295	£1455	£1320	£1575
<b>FTT U6</b> U6 - High energy efficient triple glazed unit. U value of window 0.80	-	£475	£496	£496	£526	£526	£596	£658	£688	£708	£712	£804	£728	£870
<b>FTT R3</b> R3 - Sound reducing triple glazed unit. U value of window 0.81	-	£510	£535	£535	£568	£565	£640	£710	£745	£765	£770	£870	£785	£940
<b>FTT/U U8 Thermo</b> U8 - Passive quadruple glazed unit. U value of window 0.58*	-	£935	£987	£992	£1047	£1052	£1172	£1296	£1352	£1396	£1410	£1575	£1430	£1704
<b>FTT/U U6</b> U6 - High energy efficient triple glazed unit. U value of window 0.80	-	£522	£545	£545	£578	£578	£655	£723	£756	£778	£783	£884	£800	£957
<b>FTT/U R3</b> R3 - Sound reducing triple glazed unit. U value of window 0.81	-	£561	£588	£588	£624	£621	£704	£781	£819	£841	£847	£957	£863	£1034
<b>FTT/W U8 Thermo</b> U8 - Passive quadruple glazed unit. U value of window 0.58*	-	£865	£908	£920	£965	£972	£1080	£1195	£1245	£1282	£1295	£1455	£1320	£1575
<b>FTT/W U6</b> U6 - High energy efficient triple glazed unit. U value of window 0.80	-	£475	£496	£496	£526	£526	£596	£658	£688	£708	£712	£804	£728	£870
<b>FTT/W R3</b> R3 - Sound reducing triple glazed unit. U value of window 0.81	-	£510	£535	£535	£568	£565	£640	£710	£745	£765	£770	£870	£785	£940

\*window U value when installed with thermal flashing



## FTT U8 Thermo

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



## FTT U6

- Triple glazed and quadruple seal



## FTT R3

- Triple glazed and quadruple seal
- Sound reduction glazing unit (Rw =40dB)

FLASHINGS  
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pages 56 - 62



- 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





**FPP-V P2**  
preSelect

# TOP HUNG AND PIVOT DUAL FUNCTION WINDOWS - NATURAL PINE

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
effective glazing area [m <sup>2</sup> ]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.75	0.92	0.95	1.16	0.92	0.75
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80

<b>FPP-V P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	–	£344	£356	£365	£372	£372	£392	£434	£480	£508	£522	£565	£500	£536
-----------------	---	---	------	------	------	------	------	------	------	------	------	------	------	------	------

All windows available vented or non-vented (price on application).  
**Sizes: 06 to 80 meet fire escape regulations**

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**ACCESSORIES**  
 pages 56 - 62



## FPP-V P2 preSelect

- Topsafe® system of burglary protection as standard
- Energy saving P2 glazing units (U-value of window 1.2 W/m<sup>2</sup>K)

## DISCONTINUED TOP HUNG & PIVOT WINDOWS – NATURAL PINE PLEASE ASK FOR DETAILS

SIZE	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98
	01	02	16	03	04	05	06	07	08	09	10	11	12
FHP-V U3	No	No	No	No	YES	No	No	YES	YES	YES	No	No	No
FHP-V P2	No	No	No	No	No	No	No	YES	No	No	No	No	No
FHP-V/C U3	No	YES	No	No	No	No	YES	YES	No	No	No	No	No
FHP-V O1	No	No	No	No	No	No	No	No	No	No	No	No	No



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

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



# 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	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	0.75	0.92	0.95	1.16	0.92	0.75
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80

**NEW**

<b>FPW-V P2 preSelect</b> (White Acrylic)	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	–	£344	£356	£365	£372	£372	£392	£434	£480	£508	£522	£565	£500	£536
--	---	---	------	------	------	------	------	------	------	------	------	------	------	------	------

<b>FPU-V P2 preSelect</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	–	£390	£400	£410	£432	£404	£456	£504	£520	£588	£604	£650	£620	£620
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All windows available vented or non-vented (price on application).

**FLASHINGS**  
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- 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

- 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

## FTW-V P2 preSelect

### DISCONTINUED TOP HUNG & PIVOT WINDOWS – WHITE FINISH PLEASE ASK FOR DETAILS

SIZE	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98
	01	02	16	03	04	05	06	07	08	09	10	11	12
FHU-V U3	No	No	No	YES	YES	YES	YES	No	YES	No	No	No	No
FHU-V P2	No	No	No	No	No	YES	No	No	No	No	No	No	No



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

**PPP-V**  
preSelect

## TOP HUNG AND PIVOT DUAL FUNCTION WINDOWS – PVC

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
effective glazing area [m <sup>2</sup> ]	0.21	0.29	0.37	0.38	0.47	0.47	0.59	0.72	0.75	0.92	0.95	1.16	0.92	0.75
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80
<b>PPP-V P2 preSelect</b> P2 – Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	–	£425	£430	£430	£450	£450	£490	£530	£550	£590	£590	£650	–	–

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### 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



■ 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







**FYP-V**  
proSky  
**FDY-V**  
Duet proSky

## 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 [m <sup>2</sup> ]	0.73	0.85	0.96	0.62	0.92	1.07	1.22	1.42
size symbol	07	13	40	42	09	80	41	43
<b>FYP-V P2 proSky</b>	<b>£440</b>	<b>£486</b>	<b>£532</b>	<b>£584</b>	<b>£490</b>	<b>£550</b>	<b>£600</b>	<b>£650</b>
P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2								

WITH LOWER TRANSOM						
windows external dimensions [cm]	78x186	78x206	78x235	94x186	94x206	94x235
effective glazing area [m <sup>2</sup> ]	0.91	1.03	1.20	1.15	1.30	1.52
size symbol	CA	CB	CC	DA	DB	DC
<b>FDY-V P2 Duet proSky</b>	<b>£650</b>	<b>£710</b>	<b>£780</b>	<b>£700</b>	<b>£765</b>	<b>£860</b>
P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2						

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### FYP-V proSky

- One sash window
- Install at pitches from 20-65°



### FDY-V Duet proSky

- Twin sash window in a single frame
- Install at pitches from 25-65°



■ 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

■ 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 of RAL colours to special order

■ Available in conservation style



**FGH-V**  
Galeria



## BALCONY WINDOW

BALCONY WINDOW		
windows external dimensions [cm]	78x255	94x255
effective glazing area [m <sup>2</sup> ]	0.92	1.67
size symbol	CA	CB

### FGH-V P2 Galeria

P2 - Anti-burglary double glazed unit.  
U value of window 1.5

£2 350

£2 350

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



### 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

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■ 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



7

BDL  
BDR  
BVP  
BXP

# L-SHAPE COMBINATION WINDOWS

## L-SHAPED WINDOW

	windows external dimensions [cm]	78x60	78x75	78x95	78x115	78x137	94x60	94x75	94x95	94x115	114x60	114x75	114x95	114x115	134x60
	effective glazing area [m <sup>2</sup> ]	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
<b>BDL P2/ BDR P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£525	£580	£630	£700	£775	–	£620	£690	£750	–	–	£745	£820	–
<b>BVP P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£338	£355	£375	£422	£465	£375	£395	£418	£460	£392	£420	£435	£480	£425
<b>BXP P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£275	£286	£298	£332	£360	£298	£310	£324	£352	£348	£376	£415	£455	£395
<b>BDL/W P2/BDR/W P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£538	£592	£642	£718	£788	–	£630	£700	£770	–	–	£755	£835	–
<b>BVW P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£350	£368	£388	£435	£478	£388	£408	£430	£472	£405	£430	£445	£490	£438
<b>BXW P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£285	£298	£308	£344	£372	£308	£320	£335	£364	£358	£388	£428	£470	£408
<b>BDL/U P2/ BDR/U P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£578	£638	£694	£770	£852	–	£682	£760	£825	–	–	£820	£902	–
<b>BVU P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£372	£392	£414	£464	£512	£414	£435	£460	£506	£432	£462	£500	£560	£480
<b>BXU P2</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£330	£344	£358	£398	£432	£358	£372	£388	£422	£418	£451	£498	£546	£474

## 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
<b>EUV-L/B</b>	for Slate	£152	£162	£173	£170	£172	£172	£179	£177
<b>EUV/B</b>	for Tiles	£129	£134	£139	£137	£139	£139	£144	£142

**FLASHINGS**  
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**BD\_**

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



**BVP**

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



**BXP**

- Non-opening option



■ 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





9

FW  
WG  
WLI



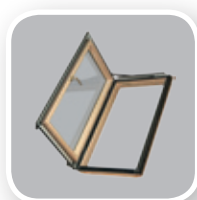
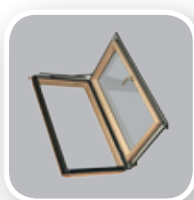
## MEANS OF ESCAPE and ACCESS ROOF LIGHTS

### SIDE HUNG ESCAPE WINDOW

windows external dimensions [cm]		66x78	66x98	66x118	78x98	78x118	94x98	94x118
size symbol		22	03	04	05	06	15	08
<b>FWL P2 &amp; FWR P2</b>	Natural Pine, P2 Energy saving double glazed	<b>£345</b>	<b>£345</b>	<b>£360</b>	<b>£435</b>	<b>£472</b>	<b>£522</b>	<b>£552</b>
<b>FWL/U P2 &amp; FWR/U P2</b>	White PU Coated Pine, P2 Energy saving double glazed	<b>£405</b>	<b>£405</b>	<b>£425</b>	<b>£520</b>	<b>£565</b>	<b>£625</b>	<b>£655</b>
<b>FWL/C P2 &amp; FWR/C P2</b>	Natural Pine, P2 Energy saving double glazed. Conservation style	<b>£446</b>	<b>£449</b>	<b>£492</b>	<b>£577</b>	<b>£654</b>	<b>£679</b>	<b>£717</b>
<b>FWL/W P2 &amp; FWR/W P2</b>	White Acrylic, P2 Energy saving double glazed	<b>£345</b>	<b>£345</b>	<b>£360</b>	<b>£435</b>	<b>£472</b>	<b>£522</b>	<b>£552</b>

### FLASHING FOR SIDE HUNG ESCAPE WINDOW

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


**FWL-left**

**FWR-right**
**FW\_**

- 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:

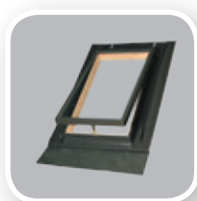
\* When ordering note to choose side hung opening option when viewed from the outside

\*\* Order flashings specific to these windows – do not use standard flashings

ESCAPE AND SMOKE  
VENTILATION

### STANDARD ACCESS ROOF LIGHTS

external dimensions [cm]	46x55	46x75	46x61	external dimensions [cm]	54x98
size symbol	01	02	16	size symbol	01
<b>WGT</b>	<b>£110</b>	<b>£119</b>	–	<b>WLI</b>	<b>£222</b>
<b>WGI</b>	<b>£131</b>	<b>£140</b>	–	<b>WLI/C</b>	<b>£260</b>
<b>WGI/C</b>	<b>£172</b>	<b>£184</b>	<b>£252</b>		


**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

**01283 554755**  
[www.fakro.co.uk](http://www.fakro.co.uk)



5

FSP



## SMOKE VENTILATION WINDOW SYSTEMS

### FAKSV1 FAKSV2 FSP

Smoke Ventilation Roof Windows (EN121012:2003) 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, while the window sash protects the roof opening against the effects of a strong lateral wind. The most commonly used Smoke Ventilation Roof Windows are of Centre Pivot operation with laminated glazing. The FSP is an aerodynamic smoke vent system with hinges in the base of the frame.



**ELECTRICAL COMPONENTS**



**FAKSV**



**FSP**



**FAKSV17**

FSP Smoke Ventilation Window to EN121012:2003					
Window external dimensions (cm)	78x140	94x140	114x118	114x140	134x98
effective glazing area (m <sup>2</sup> )					
size symbol	07	09	10	11	12
<b>FSP KIT</b>	<b>£2 750</b>	<b>£2 820</b>	<b>£2 820</b>	<b>£3 050</b>	<b>£3 000</b>
<b>FSP KIT</b>	<b>£2 770</b>	<b>£2 840</b>	<b>£2 840</b>	<b>£3 070</b>	<b>£3 020</b>
U value of window = 1.1					
Includes FSP window, actuators, control unit, smoke sensor, smoke alarm and flashing					

### Flashing for FSP Smoke Ventilation Windows

Bottom opening system

ELS Flashing for slate roof coverings  
 EZS-A Flashing for tile and metal sheeting roof coverings  
 EHS-A Flashing for high profile roof coverings  
 Note: Specify which tiles or slates the window is being installed with to ensure the correct flashing is supplied.

FAKWRS1 FAKWRS2 Solar powered remote control wireless unit for effortless operation of the window. Wireless unit is quick and easy to install during window installation or retrospectively. FAKWRS2 includes wireless rain sensor which will close the window automatically.

### Electrical Packages

#### FAKS1

1 x 24Volt Chain Actuator,  
 1 x Transformer Switch and back box,  
 1 x Set of Brackets and fittings,  
 1 motor for 1 window.

**£250**

#### FAKS1B

1 x 24Volt Chain Actuator,  
 2 x Selector Switches and back boxes,  
 1 x Control unit,  
 1 x Set of Brackets and fittings,  
 1 motor for 1 window and 1 blind.

**£320**

#### FAKWRS1

1 x 24Volt Chain Actuator (Solar powered),  
 1 x Remote control unit,  
 1 x Set of Brackets and fittings,

**£525**

#### FAKWRS2

1 x 24Volt Chain Actuator (Solar powered),  
 1 x Remote control unit,  
 1 x Wireless rain sensor,  
 1 x Set of Brackets and fittings.

**£800**

#### FAKA1

1 x 24Volt Chain Actuator,  
 1 x Control unit,  
 1 x Remote control,  
 1 x Rain sensor,  
 1 x Set of Brackets and fittings,  
 1 motor for 1 window.

**£550**

#### FAKA1B

1 x 24Volt Chain Actuator,  
 1 x Control unit,  
 1 x Remote control,  
 1 x Rain sensor,  
 1 x Set of Brackets and fittings,  
 1 motor for one window and one blind.

**£595**

#### FAKA2

2 x 24Volt Chain Actuator,  
 1 x Control unit,  
 1 x Remote control,  
 1 x Rain sensor,  
 2 x Set of Brackets and fittings,  
 2 motors for 2 windows.

**£770**

### Smoke Ventilation

#### Centre Pivot FAKSV1

1 x CDC200/600 Chain Actuator,  
 1 x Ventilator switch,  
 1 x Control unit with Break Glass,  
 1 x Smoke sensor,  
 1 x Break Glass, Emergency Power Back Up (Battery),  
 1 x FTP-V P2 size 10 Roof Window,  
 1 x Flashing.

**£1395**

#### Centre Pivot FAKSV2\*

2 x CDC200/600 Chain Actuator,  
 1 x Ventilator switch,  
 1 x Control unit with Break Glass,  
 1 x Smoke sensor,  
 1 x Break Glass, Emergency Power Back Up (Battery),  
 2 x FTP-V P2 size 7 Roof Window,  
 1 x B2/1 Flashing.

**£1980**

#### Centre Pivot FAKSV17

1 x CDC200/600 Chain Actuator,  
 1 x Ventilator switch,  
 1 x Control unit with Break Glass,  
 1 x Smoke sensor,  
 1 x Break Glass, Emergency Power Back Up (Battery),  
 1 x FTP-V P2 size 17 Roof Window,  
 1 x Flashing.

**£1425**

\*Note: The FAKSV 2 system utilises 2/78/140cm FTP-V P2 windows placed side by side in a B2/1 combination with a 100mm gap between them.

Please check with our Customer Services department for details of carriage costs if ordering any electrical package.



5

DEC  
DMC  
DXC



# DOMED FLAT ROOF WINDOWS

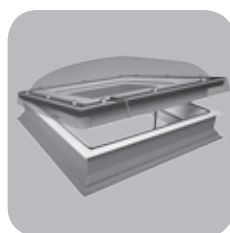
## SIZES OF FLAT ROOF WINDOW

	dimensions [cm]	60x60	60x90	70x70	80x80	90x90	90x120	100x100	100x150	120x120
	Minimum roof opening [cm]	60x60	60x90	70x70	80x80	90x90	90x120	100x100	100x150	120x120
	Maximum roof opening [cm]	65x65	65x95	75x75	85x85	95x95	95x125	105x105	105x155	125x125
	Effective glazed area [m²]	0,23	0,37	0,33	0,46	0,6	0,83	0,77	1,21	1,16
<b>DXC-C P2</b>	Non-opening P2 - Anti-burglary double glazed unit. U value of window 1.2	<b>£436</b>	<b>£467</b>	<b>£474</b>	<b>£492</b>	<b>£567</b>	<b>£650</b>	<b>£615</b>	<b>£786</b>	<b>£749</b>
<b>DXC-C P4 Secure*</b>	Non-opening P4 - Anti-burglary double glazed unit. U value of window 1.2	<b>£540</b>	<b>£600</b>	<b>£615</b>	<b>£615</b>	<b>£710</b>	<b>£790</b>	<b>£770</b>	<b>£980</b>	<b>£950</b>
<b>DMC-C P2</b>	Manually opening P2 - Anti-burglary double glazed unit. U value of window 1.2	<b>£610</b>	<b>£675</b>	<b>£695</b>	<b>£698</b>	<b>£798</b>	<b>£890</b>	<b>£865</b>	<b>£1 110</b>	<b>£1 075</b>
<b>DMC-C P4 Secure*</b>	Manually opening P4 - Anti-burglary double glazed unit. U value of window 1.2	<b>£672</b>	<b>£745</b>	<b>£770</b>	<b>£770</b>	<b>£880</b>	<b>£980</b>	<b>£955</b>	<b>£1 225</b>	<b>£1 180</b>
<b>DEC-C P2</b>	Electrically opening P2 - Anti-burglary double glazed unit. U value of window 1.2	<b>£826</b>	<b>£857</b>	<b>£875</b>	<b>£882</b>	<b>£957</b>	<b>£1 040</b>	<b>£1 005</b>	<b>£1 176</b>	<b>£1 139</b>
<b>DEC-C U8 (VSG)</b>	U8 - Passive quadruple glazed unit. U value of window 0.72	<b>£1 300</b>	<b>£1 360</b>	<b>£1 400</b>	<b>£1 410</b>	<b>£1 550</b>	<b>£1 700</b>	<b>£1 650</b>	<b>£1 950</b>	<b>£1 900</b>

\* P4 Secure window offers increased levels of security and achieves anti-burglary RC2 class II as per EN1627 (Document Q)

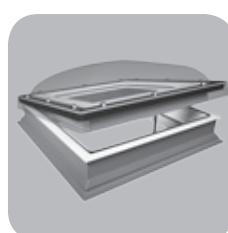
ACCESSORIES  
page 60

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



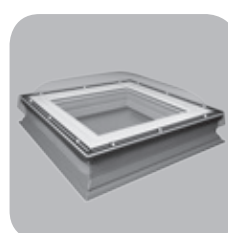
### DEC

- Electrically opened wireless Z-Wave system
- Rain sensor



### DMC

- Manually opened



### DXC

- Non-opening



■ High energy-efficiency. Perfect thermal insulation parameters. The DEC-C U8 window with passive U8 glazing unit is characterized by heat transmittance co-efficient for the whole window of  $U=0.55 \text{ W/m}^2\text{K}$  according to EN1873 standard (for the size 120x120cm). Standard P2 glazing unit features coefficient  $U=1.2 \text{ W/m}^2\text{K}$

■ 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 58





4

DEF  
DMF  
DXF  
DXW

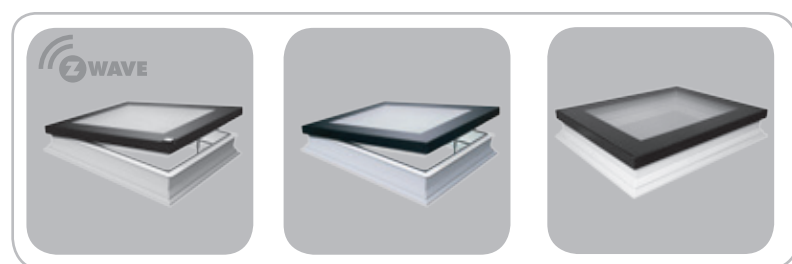
# NON DOMED FLAT ROOF WINDOWS

## SIZES OF FLAT ROOF WINDOW

	dimensions [cm] Minimum roof opening [cm] Maximum roof opening [cm]	60x60 60x60 65x65	60x90 60x90 65x95	70x70 70x70 75x75	80x80 80x80 85x85	90x90 90x90 95x95	90x120 90x120 95x125	100x100 100x100 105x105	100x150 100x150 105x155	120x120 120x120 125x125
	Effective glazed area [m²]	0,23	0,37	0,33	0,46	0,6	0,83	0,77	1,21	1,16
<b>DXF-D U6</b>	Non opening. U6 - High energy efficient triple glazed unit. U value of window 0.88	<b>£858</b>	<b>£926</b>	<b>£952</b>	<b>£956</b>	<b>£1 072</b>	<b>£1 190</b>	<b>£1 156</b>	<b>£1 428</b>	<b>£1 385</b>
<b>DXF-D U6 Secure*</b>	Non opening. U6 - High energy efficient triple glazed unit. U value of window 0.88	<b>£946</b>	<b>£1 018</b>	<b>£1 046</b>	<b>£1 050</b>	<b>£1 175</b>	<b>£1 298</b>	<b>£1 275</b>	<b>£1 555</b>	<b>£1 514</b>
<b>DMF-D U6</b>	Manually opening. U6 - High energy efficient triple glazed unit. U value of window 0.88	<b>£960</b>	<b>£1 038</b>	<b>£1 072</b>	<b>£1 080</b>	<b>£1 208</b>	<b>£1 326</b>	<b>£1 292</b>	<b>£1 606</b>	<b>£1 548</b>
<b>DMF-D U6 Secure*</b>	Manually opening. U6 - High energy efficient triple glazed unit. U value of window 0.88	<b>£1 054</b>	<b>£1 135</b>	<b>£1 178</b>	<b>£1 182</b>	<b>£1 318</b>	<b>£1 454</b>	<b>£1 412</b>	<b>£1 752</b>	<b>£1 700</b>
<b>DEF-D U6</b>	Electrically opening. U6 - High energy efficient triple glazed unit. U value of window 0.88	<b>£1 190</b>	<b>£1 258</b>	<b>£1 285</b>	<b>£1 292</b>	<b>£1 428</b>	<b>£1 548</b>	<b>£1 514</b>	<b>£1 785</b>	<b>£1 742</b>
<b>DXF-D U8</b>	Non opening. U8 - Passive quadruple glazed unit. U value of window 0.55	<b>£1 122</b>	<b>£1 208</b>	<b>£1 235</b>	<b>£1 248</b>	<b>£1 395</b>	<b>£1 530</b>	<b>£1 504</b>	<b>£1 854</b>	<b>£1 785</b>
<b>DMF-D U8</b>	Manually opening. U8 - Passive quadruple glazed unit. U value of window 0.55	<b>£1 198</b>	<b>£1 300</b>	<b>£1 344</b>	<b>£1 352</b>	<b>£1 514</b>	<b>£1 658</b>	<b>£1 615</b>	<b>£1 998</b>	<b>£1 955</b>
<b>DEF-D U8</b>	Electrically opening. U8 - Passive quadruple glazed unit. U value of window 0.55	<b>£1 445</b>	<b>£1 514</b>	<b>£1 564</b>	<b>£1 576</b>	<b>£1 700</b>	<b>£1 870</b>	<b>£1 828</b>	<b>£2 168</b>	<b>£2 108</b>
<b>DXW-DW6 Walkon window</b>	Passive quadruple glazed unit. U value of window 0.5	<b>£1 350</b>	<b>£1 450</b>	<b>£1 500</b>	<b>£1 520</b>	<b>£1 680</b>	<b>£1 850</b>	<b>£1 800</b>	–	<b>£2 180</b>

\* P4 Secure window offers increased levels of security and achieves anti-burglary RC2 class II as per EN1627 (Document Q)

ACCESSORIES  
page 60



### DEF

- Electrically opened wireless Z-Wave system
- Rain sensor

### DMF

- Manually opened

### DXF

- Non-opening



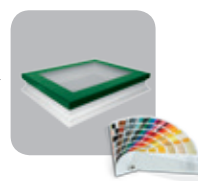
The D\_F non-domed flat roof window is characterized by exceptional thermal insulation qualities and innovative design

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

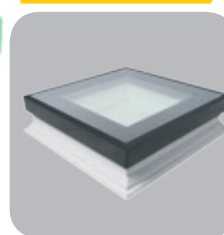
The D\_F window can be manufactured in a wide range of sizes and is

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



D\_F ColourLine are available in any colour from RAL Classic palette.



### DXW

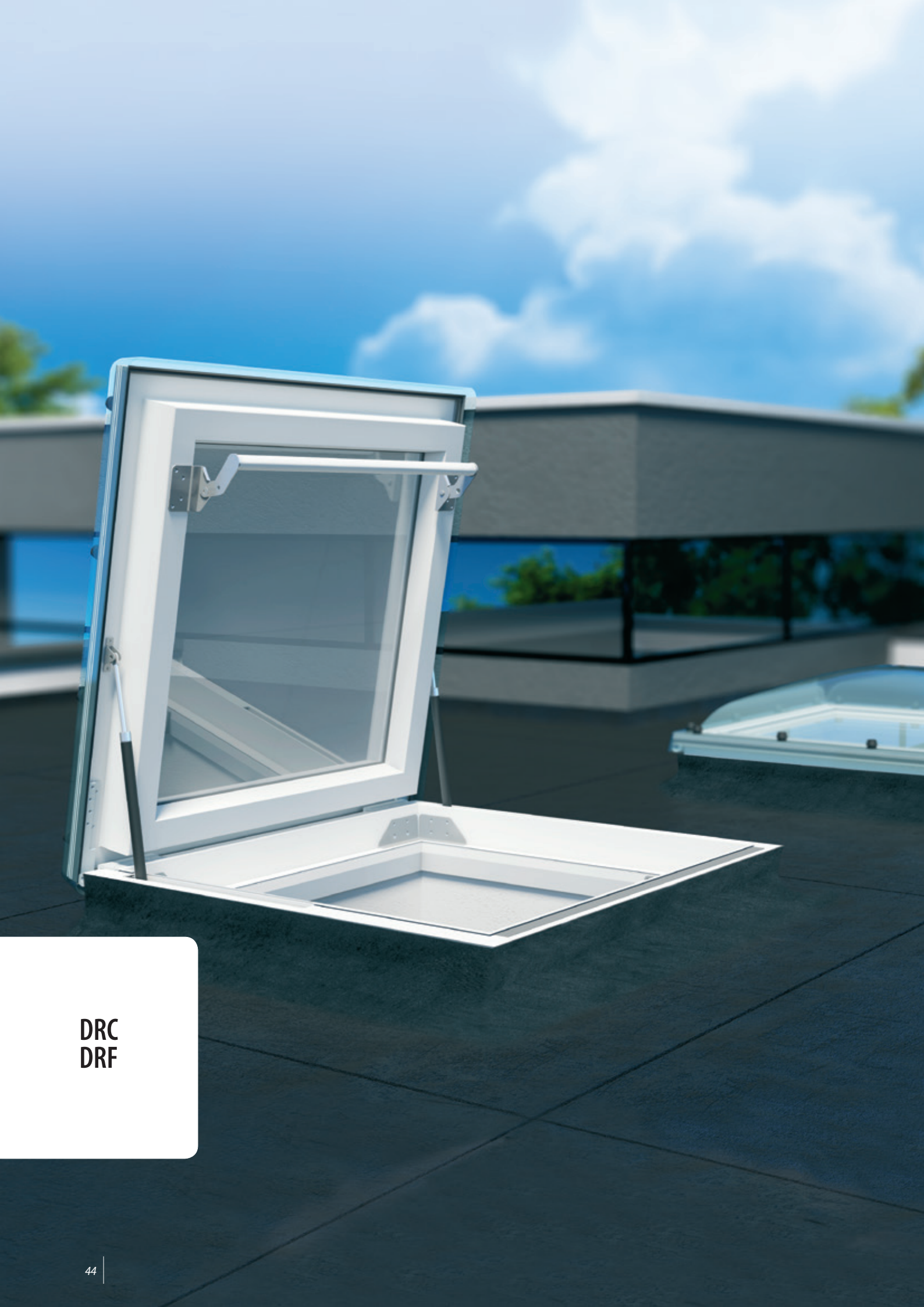
- Walk on window

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 58





DRC  
DRF



# FLAT ROOF ACCESS WINDOWS

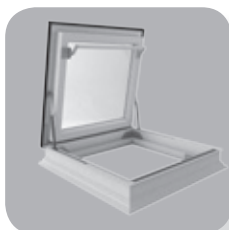
## SIZES OF FLAT ROOF WINDOWS

dimensions [cm]	90x90	90x120	100x100	120x120
Minimum roof opening [cm]	90x90	90x120	100x100	120x120
Maximum roof opening [cm]	95x95	95x125	105x105	125x125
Effective glazed area [m <sup>2</sup> ]	0,6	0,83	0,77	1,16
<b>DRF DU6</b>	Flat access roof light without the dome. U6 - High energy efficient triple glazed unit. U value of window 0.74*			
<b>DRC-C P2</b>	Flat access roof light with the dome. P2 - Anti-burglary double glazed unit. U value of window 0.88**			

\* according to EN14351-1:2006+A1:2010

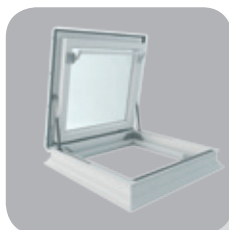
\*\* according to EN1873:2014

NEW



### 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.

ACCESSORIES  
page 60



■ 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. External awning blind protects the room from overheating, while internal accessories provide protection from intense sunlight and enhance interior design.



**CONSERVATION  
WINDOWS**



# CONSERVATION WINDOWS

## CENTRE PIVOT - NATURAL PINE & WHITE ACRYLIC, MANUAL OPERATION

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m²]														
	size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80
<b>FTP-V/C P2 (V) Kit Natural Pine</b>	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	£560	£580	£595	£650	£661	£700
<b>FTP-V/C P2 (J) Kit Natural Pine</b>	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	£600	£640	£665	£702	£709	£780
<b>FTW-V/C P2 (V) Kit White Acrylic</b>	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	£560	£580	£595	£650	£661	£700
<b>FTW-V/C P2 (J) Kit White Acrylic</b>	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	£600	£640	£665	£702	£709	£780
<b>FTP-V/C G6 Natural Pine</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£464	£482	£543	£550	£568	£551	£585	£625	£662	£684	£746	£779	£736	–
<b>FTP-V/C R1 Natural Pine</b>	R1 - Sound reducing double glazed unit.	£376	£408	£424	£429	£440	£450	£498	£572	£583	£610	£630	£668	£612	£737
<b>FTP-V P2 Secure</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	£440	£480	£510	£510	£540	£540	£610	£670	£670	£720	£805	£820	£740	£875

\* Includes FTP-V/C U3, conservation flashing (standard depth) and XDP insulation set

\*\*Includes FTP-V/C U3, conservation flashing (3cm deeper than standard depth) and XDP insulation set P2 and P5 glazing units have an easy maintenance external pane. Also available in white PU coated pine

## CENTRE PIVOT – ELECTRONICALLY OPERATED NATURAL PINE & WHITE ACRYLIC

<b>FTP-V/C P2 Z-Wave Natural Pine</b>	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	£912	£936	£946	£988	£946	£980
<b>FTP-V/C P5 Z-Wave Natural Pine</b>	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£750	£790	£830	£835	£880	£890	£970	£1020	£1045	£1080	£1090	£1150	£1085	£1160
<b>FTW-V/C P2 Z-Wave White Acrylic</b>	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	£912	£936	£946	£988	£946	£980
<b>FTW-V/C P5 Z-Wave White Acrylic</b>	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	£750	£790	£830	£835	£880	£890	£970	£1020	£1045	£1080	£1090	£1150	£1085	£1160

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 and concrete)















**ESJ/C** - shingles e.g. cedar, asphalt, felts etc.

**EZJ/C** - profiled roof coverings up to 45mm in depth e.g. Double Pantile.



## CONSERVATION WINDOWS

### CENTRE PIVOT - PVC (AVAILABLE IN WHITE, PINE OR GOLDEN OAK)

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m <sup>2</sup> ]														
	size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80
<b>PTP-V/C P2</b>	P2 - Safety double glazed unit. U value of window 1.2	<b>£377</b>	<b>£403</b>	<b>£410</b>	<b>£422</b>	<b>£435</b>	<b>£435</b>	<b>£481</b>	<b>£553</b>	<b>£559</b>	<b>£585</b>	<b>£618</b>	<b>£676</b>	<b>£624</b>	<b>£741</b>
<b>PTP-V/C O1*</b>	O1 - Obscure double glazed unit. U value of window 1.2	<b>£365</b>	<b>£390</b>	<b>£400</b>	<b>£410</b>	<b>£425</b>	<b>£425</b>	<b>£470</b>	<b>£535</b>	<b>£540</b>	<b>£565</b>	<b>£600</b>	<b>£650</b>	<b>£600</b>	<b>£720</b>

\*window with the obscure glass



Conservation windows in L-shape, Anglesey, Wales

















Conservation windows in L-shape, Anglesey, Wales



Pioneers Museum, Rochdale, Lancashire

# CONSERVATION WINDOWS





## TOP HUNG AND PIVOT WINDOWS - NATURAL PINE

	windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
	effective glazing area [m <sup>2</sup> ]	 0.21	 0.29	 0.37	 0.38	 0.47	 0.47	 0.59	 0.72	 0.75	 0.92	 0.95	 1.06	 0.92	 1.07
	size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80
<b>FPP-V/C P2 preSelect</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	—	£520	£530	£530	£558	£540	£585	£630	£645	£695	£695	£760	£710	£795
<b>FPP-V/C P5 preSelect</b>	P5 - Safety triple glazed unit. Toughened outer pane. Laminated inner pane. U value of window 0.97	—	£720	£730	£750	£770	£748	£805	£870	£895	£960	—	—	—	—
<b>PPP-V/C P2 preSelect</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	—	£691	£698	£698	£740	£740	£790	£860	£920	£980	£980	£1 100	—	—
<b>FPU-V/C P2 preSelect</b>	P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2	—	£560	£565	£565	£580	£580	£605	£650	£670	£720	£725	£790	£740	£825

P2 glazing units have an easy maintenance external pane

# CONSERVATION WINDOWS

## THERMALLY EFFICIENT ROOF WINDOWS - NATURAL PINE















windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
effective glazing area [m <sup>2</sup> ]														
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80

<b>FTT/C U6</b>	U6 - High energy efficient triple glazed unit. U value of window 0.80	—	£611	£637	£637	£676	£682	£767	£845	£884	£910	£916	£1033	£936	£1110
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<b>FTT/C U8 Thermo</b>	U8 - Passive quadruple glazed unit. U value of window 0.58*	—	£1075	£1135	£1140	£1215	£1220	£1350	£1490	£1560	£1600	£1610	£1820	£1660	£1980
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\*window U value when installed with thermal flashing

## THERMALLY EFFICIENT ROOF WINDOWS - WHITE PU-COATED PINE

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
effective glazing area [m <sup>2</sup> ]														
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80

<b>FTT/U/C U6</b>	U6 - High energy efficient triple glazed unit. U value of window 0.80	—	£670	£705	£705	£745	£750	£845	£935	£980	£995	£1020	£1160	£1040	£1250
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<b>FTT/U/C U8 Thermo</b>	U8 - Passive quadruple glazed unit. U value of window 0.58*	—	£1150	£1220	£1230	£1300	£1305	£1450	£1600	£1680	£1735	£1745	£1950	£1770	£2120
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\*window U value when installed with thermal flashing



Barn conversion, Baschurch, Shropshire



# CONSERVATION WINDOWS

## HIGH PIVOT WINDOWS - NATURAL PINE

windows external dimensions [cm]	78x140	78x160	78x180	78x206	94x140	94x160	94x180	94x206
effective glazing area [m <sup>2</sup> ]	0.73	0.85	0.96	1.62	0.92	1.07	1.22	1.42
size symbol	07	13	40	42	09	80	41	43

**FYP-V/C P2 proSky**  
Single sash  
P2 - Safety double glazed unit. Toughened outer pane. Laminated inner pane. U value of window 1.2

**£570   £630   £690   £755   £635   £715   £780   £845**

## HIGH PIVOT WINDOWS - NATURAL PINE

windows external dimensions [cm]	78x186	78x206	78x235	94x186	94x206	94x235
effective glazing area [m <sup>2</sup> ]	1.05	1.19	1.39	1.29	1.46	1.71
size symbol	CA	CB	CC	DA	DB	DC

**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

**£825   £915   £1 000   £900   £990   £1 137**

## BALCONY WINDOW

windows external dimensions [cm]	78x255	94x255
effective glazing area [m <sup>2</sup> ]	0.92	1.67
size symbol		

**FGH-V/C P2 Galeria**  
P2-Anti-burglary double glazed unit. U value of window 1.5  
**£2 800   £2 800**

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

## L-SHAPED COMBINATION WINDOW

windows external dimensions [cm]	78x60	78x75	78x95	78x115	78x137	94x60	94x75	94x95	94x115	114x60	114x75	114x95	114x115	134x60
effective glazing area [m <sup>2</sup> ]	0.25	0.33	0.45	0.57	0.71	0.31	0.42	0.58	0.73	0.40	0.53	0.73	0.92	0.48
size symbol	33	81	82	83	84	34	85	86	87	35	89	90	91	36

**BDL/C P2 BDR/C P2**  
Tilt and turn opening  
P2 - Safety double glazed unit. U value of window 1.2

**£700   £760   £825   £918   £1 007   -   £818   £899   £987   -   -   £975   £1 066   -**

**BVP/C P2**  
Tilt opening  
P2 - Safety double glazed unit. U value of window 1.2

**£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**

P2 glazing units have an easy maintenance external pane

## 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, 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 flush fitting of the window in the roof line

No other roof tile manufacturer offers a choice of 3 depths



## STANDARD FLASHINGS ALLOW TO INSTALL WINDOWS IN THE MOST POPULAR TYPES OF ROOFING MATERIALS:

### FLASHINGS FOR CENTRE PIVOT WINDOW, TOP HUNG AND PIVOT WINDOWS

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

\* Remember flashings are used only where the roof window is to be positioned lower (up to 30mm) in the roof line

\*\* 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



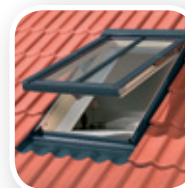
#### EPV, EPV-T

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°



#### Kingspan

header section for membrane roofs. Price on application





#### 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
<b>ELV EZV-A</b>	<b>£64</b>	<b>£74</b>	<b>£95</b>	<b>£107</b>	<b>£71</b>	<b>£74</b>	<b>£110</b>	<b>£122</b>
<b>EHN-A</b>	<b>£73</b>	<b>£82</b>	<b>£105</b>	<b>£118</b>	<b>£81</b>	<b>£84</b>	<b>£120</b>	<b>£134</b>
<b>ELV/C* EZV-A/C*</b>	<b>£87</b>	<b>£105</b>	<b>£122</b>	<b>£138</b>	<b>£96</b>	<b>£112</b>	<b>£142</b>	<b>£158</b>
<b>EHN-A/C*</b>	<b>£101</b>	<b>£120</b>	<b>£134</b>	<b>£152</b>	<b>£108</b>	<b>£123</b>	<b>£154</b>	<b>£174</b>

#### 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
<b>ELV EZV-A</b>	<b>£97</b>	<b>£109</b>	<b>£120</b>	<b>£115</b>	<b>£123</b>	<b>£136</b>
<b>EHN-A</b>	<b>£109</b>	<b>£120</b>	<b>£131</b>	<b>£126</b>	<b>£137</b>	<b>£150</b>
<b>ELV/C* EZV-A/C*</b>	<b>£125</b>	<b>£140</b>	<b>£154</b>	<b>£148</b>	<b>£160</b>	<b>£176</b>
<b>EHN-A/C*</b>	<b>£137</b>	<b>£154</b>	<b>£166</b>	<b>£160</b>	<b>£177</b>	<b>£192</b>

\*Conservation style.

## FLASHING FOR JOINING WINDOWS IN COMBINATIONS

### THE MOST POPULAR-FLASHING COMBINATIONS FOR PROFILED ROOF COVERINGS\*

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

### COMBINATION SYSTEM FLASHING FOR HIGH PROFILED ROOF COVERING UP TO 90 MM

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



**B2/1**  
horizontal  
combination



**B1/2**  
vertical  
combination



**B2/2**  
block  
combination

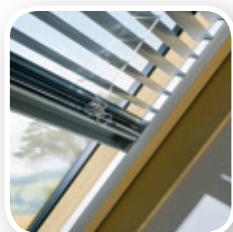
Flashing systems are ready made flashing combinations for joining windows in the groups: horizontally, vertically, and in

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.

## ROOF WINDOW ACCESSORIES

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](http://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.



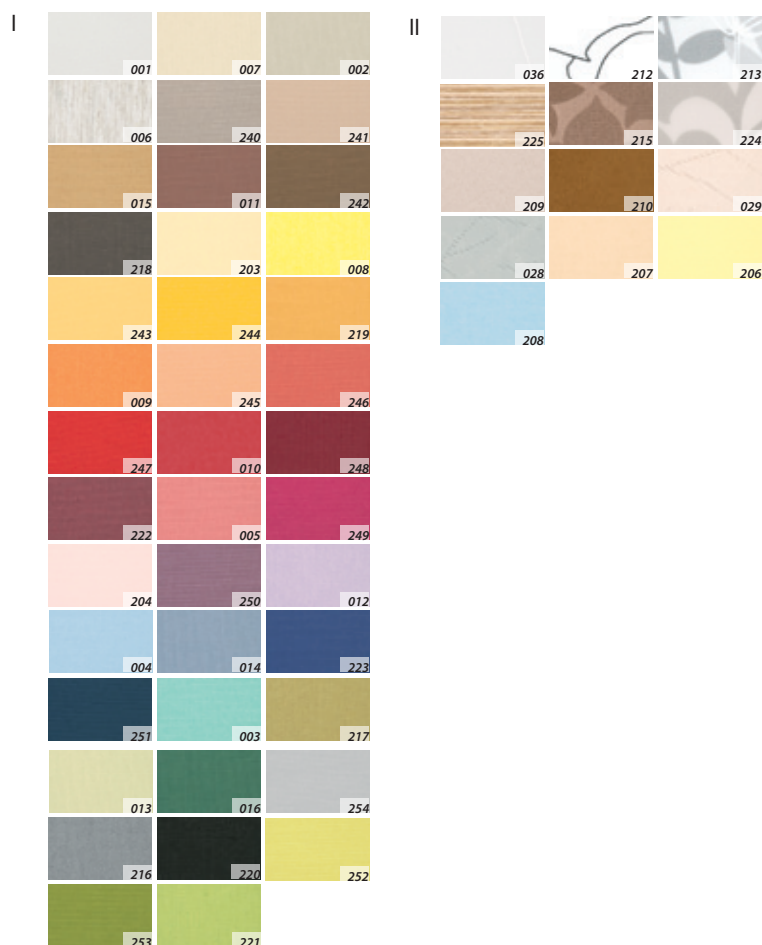
Venetian  
blind  
**AJP**

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



Roller  
blind  
standard  
**ARS**

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





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](http://www.fakro.co.uk) we recommend that you check with us as some show our logo but DO NOT sell genuine FAKRO products.



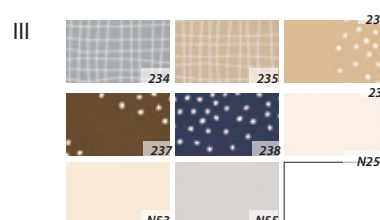
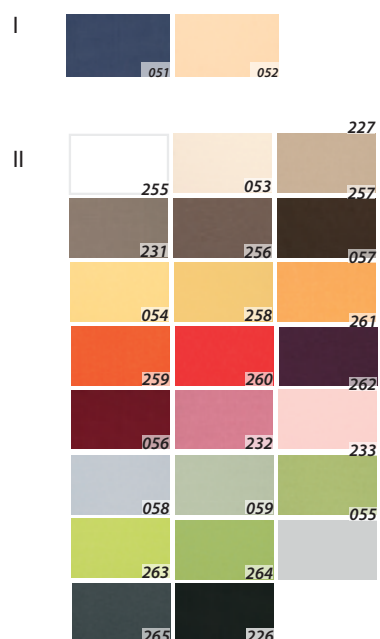
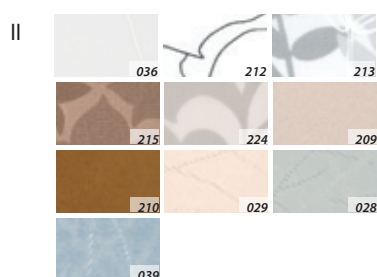
Dimming  
roller  
blinds  
**ARP**

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



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.



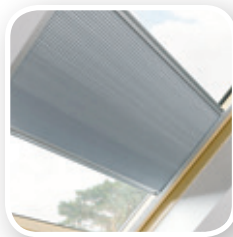
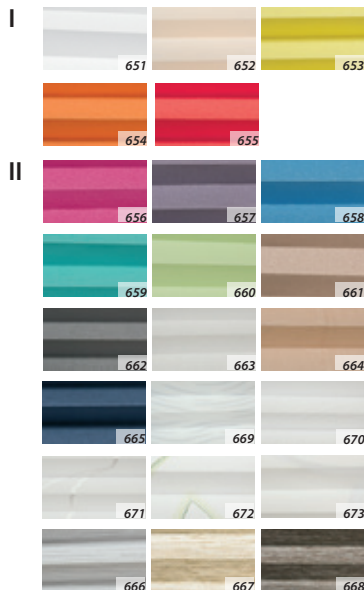
patterns N53, N55 and N255 are fire retardant fabric

## INTERNAL ACCESSORIES



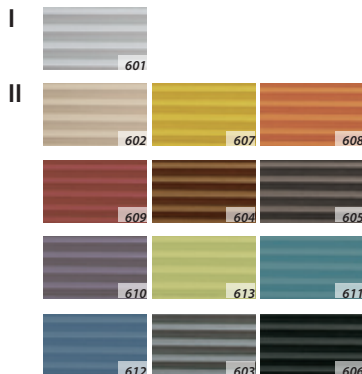
Pleated blinds  
**APS**

- 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



Pleated blinds  
**APF**

- 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



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**

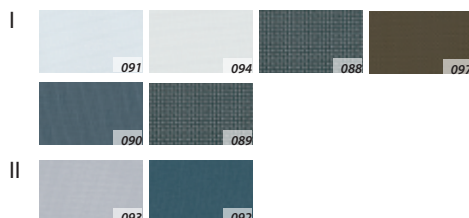
- effective protection against burdensome heat
- reducing heat loss in winter
- darkening the room
- makes break-in attempts more difficult



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 57.



## INTERNAL ACCESSORIES

windows external dimensions [cm]	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80
<b>AJP-Z-Wave I Venetian</b> Group I (Electric)	–	–	£272	£272	£275	£275	£277	£280	£282	£285	£288	£292	£285	£292
<b>AJP-Z-Wave II Venetian</b> Group II (Electric)	–	–	£282	£282	£285	£285	£285	£292	£292	£297	£297	£308	£295	£303
<b>AJP I Venetian</b> Group I	£64	£66	£69	£69	£74	£71	£76	£81	£82	£86	£89	£94	£86	£120
<b>AJP II Venetian</b> Group II	£72	£80	£83	£83	£88	£83	£88	£93	£99	£104	£104	£122	£104	£127
<b>ARS I Roller</b> Group I	£40	£40	£43	£43	£44	£46	£47	£48	£49	£50	£57	£59	£57	£59
<b>ARS II Roller</b> Group II	£64	£65	£77	£78	£79	£81	£82	£83	£87	£89	£93	£95	£91	£93
<b>ARP I Roller</b> Group I	£62	£62	£75	£75	£75	£78	£78	£78	£86	£86	£93	£98	£93	–
<b>ARP II Roller</b> Group II	£67	£67	£81	£81	£81	£84	£84	£84	£93	£93	£101	£109	£101	–
<b>ARP-Z-Wave I Roller</b> Group I (Electric)	£201	£204	£206	£206	£211	£211	£216	£219	£221	£224	£226	£232	£226	–
<b>ARP-Z-Wave II Roller</b> Group II (Electric)	£213	£216	£218	£218	£221	£221	£226	£228	£228	£236	£236	£241	£236	–
<b>ARF-Z-Wave I Blackout</b> Group I (Electric)	£203	£205	£208	£208	£213	£213	£218	£221	£223	£226	£228	£234	£228	–
<b>ARF-Z-Wave II Blackout</b> Group II (Electric)	£203	£205	£208	£208	£213	£213	£218	£221	£223	£226	£228	£233	£228	–
<b>ARF-Z-Wave III Blackout</b> Group III (Electric)	£218	£221	£223	£223	£226	£226	£234	£236	£236	£241	£244	£246	£244	–
<b>ARF I Blackout</b> Group I	£70	£71	£86	£86	£86	£88	£91	£94	£103	£103	£106	£120	£106	£120
<b>ARF II Blackout</b> Group II	£81	£81	£93	£93	£93	£96	£99	£103	£111	£114	£117	£130	£117	£130
<b>ARF III Blackout</b> Group III	£86	£86	£101	£101	£101	£103	£106	£112	£120	£125	£127	£142	£127	£142
<b>APS I Pleated</b> Group I	£57	£59	£63	£63	£65	£68	£70	£75	£78	£81	£83	£88	£86	£109
<b>APS II Pleated</b> Group II	£62	£65	£70	£70	£73	£76	£78	£86	£91	£96	£99	£104	£101	£128
<b>APF I Pleated</b> Group I	£95	£95	£117	£117	£117	£120	£124	£132	£140	£140	£145	£162	£145	£162
<b>APF II Pleated</b> Group II	£105	£105	£125	£125	£125	£130	£134	£140	£150	£155	£158	£178	£158	£178
<b>AMS 200 Insect screen</b>	£100	£102	£105	£105	£105	£112	£112	£112	£118	£118	£118	£118	£123	–
<b>AMS 250 Insect screen</b>	–	–	–	£107	£107	£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	94x118	94x140	114x118	114x140	134x98	94x160
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80
<b>AMZ I</b> Group I	£57	£57	£60	£60	£68	£70	£70	£73	£78	£86	£88	£96	£94	£104
<b>AMZ II</b> Group II	£62	£62	£67	£67	£75	£78	£78	£86	£91	£96	£102	£109	£104	£120

### 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	94x118	94x140	114x118	114x140	134x98	94x160
size symbol	01	02	16	03	04	05	06	07	08	09	10	11	12	80
<b>ARZ-H</b>	£294	£300	£308	£308	£321	£317	£331	£331	£344	£358	£361	£374	£365	£380
<b>*ARZ Z-Wave (No Switch)</b>	£331	£338	£346	£346	£362	£356	£374	£384	£390	£403	£406	£420	£410	£425
<b>*ARZ - Solar</b>	£613	£624	£634	£634	£650	£650	£660	£674	£682	£692	£698	£716	£698	–

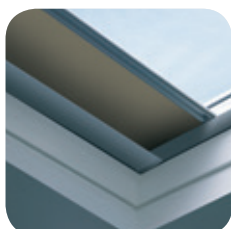
\* retaining 20 cm distance between the windows in vertical position



# ACCESSORIES FOR FLAT ROOF WINDOWS

## 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

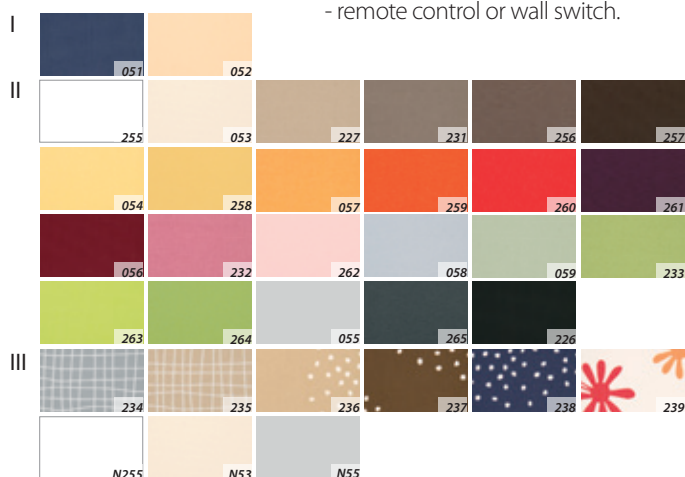
- Control:
- manual.



### ARF/D Z-Wave

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

- Control:
- remote control or wall switch.



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.

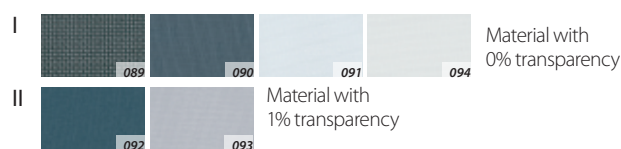
- Control:
- automatic operation or remote control.



### AMZ/CZ-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.



The material samples printed can differ in colour from the actual product.

## 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\*)

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	—
ARF/D II	£78	£78	£83	£88	£94	£105	£105	£107	£118	£107	—
ARF/D III	£88	£88	£96	£104	£106	£120	£120	£124	£136	£124	—
ARF/D I Z-Wave	£262	£262	£268	£270	£278	£282	£282	£305	—	—	—
ARF/D II Z-Wave	£270	£270	£275	£278	£285	£290	£290	£312	—	—	—
ARF/D III Z-Wave	£275	£275	£284	£286	£294	£295	£295	£320	—	—	—
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

**NEW**

**ZWS 12**
**£240**
**ZWS 230**
**£265**

## ZWS 12 / ZWS 230

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



## ZWK 10

**£65**

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



## ZWP 10

**£70**

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


**ZWG 1**
**£135**
**ZWG 3**
**£148**

## ZWG 1 / ZWG 3

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



## ZWL 1

**£75**

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**
**£84**
**ZZ 60H**
**£84**

## ZZ 60 / ZZ 60H

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


**£124**

## ZWMA 1

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


**£156**

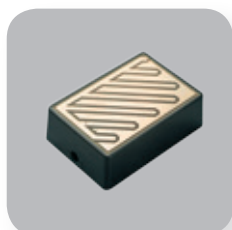
## ZWMA

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).


**£120**

## ZWMP

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


**£68**

## ZRD

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


**£52**

## ZWD

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


**£72**

## 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



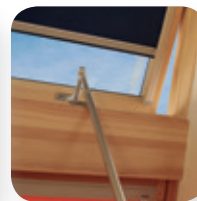
**ZBB**  
window restrictor



**ZBL**  
window lock



**ZSZ**  
control rod for  
operating awn-  
ing blinds, length  
150cm



**ZST**  
telescopic  
control rod enables  
the user to operate  
ARS, ARF, AJP, AMS.  
It also enables easy  
opening and clos-  
ing of windows



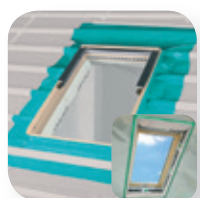
**ZSD**  
universal telescopic  
rod for opening  
DMC, DMF flat roof  
windows as well  
as internal blinds  
intended for these  
windows

### ACCESSORIES FOR OPENING WINDOWS

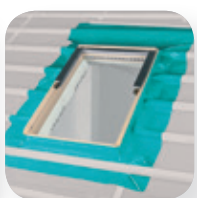
ZBH	ZBB	ZST	ZSP	ZSZ	ZBL	ZSD
£32	£35	£37	£27	£32	£32	£40

## 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] size symbol	55x78	55x98	55x118	66x98	66x118	78x98	78x118	78x140	94x118	94x140	114x118	114x140	134x98	94x160
<b>XDK</b>	£52	£52	£52	£52	£52	£52	£52	£57	£57	£57	£57	£57	£57	£62
<b>XDP</b>	£30	£30	£30	£30	£30	£30	£30	£33	£33	£33	£33	£33	£33	£35
<b>XDS</b>	£31	£31	£31	£31	£31	£31	£31	£34	£34	£34	£34	£34	£34	£36
<b>XLW-F 40 &amp; XLW-P 40</b>	£106	£113	£115	£115	£123	£123	£128	£135	£135	£140	£140	£145	£145	£155
<b>XLW-F 30 &amp; XLW-P 30</b>	£90	£93	£95	£95	£100	£100	£105	£110	£110	£115	£115	£120	£120	£130
<b>XWT</b>	£32	£32	£32	£32	£32	£32	£32	£37	£37	£37	£37	£37	£37	£40
<b>XSP, XSW (Horizontal)</b>	£16	£16	£16	£16	£16	£19	£19	£19	£21	£21	£24	£24	£26	£21



## OTHER PRODUCTS

### 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.

SOLAR SYSTEMS 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 (m²)	7.08	4.83	4.05	3.27
Absorption area (m²)	6.21	4.08	3.39	2.73
	<b>£4820</b>	<b>£4180</b>	<b>£4050</b>	<b>£3670</b>

Includes: collectors, flashing, seals, cylinder, pump, control unit, expansion tank, glycol, mixing valve, flow & return pipes (10m), collector connector

Other solar systems available

ROOF ONLY SOLAR SYSTEMS KITS (SKW)				
external dimensions [cm]	114x206	114x140	114x118	78x140
combinations				
	B3/1 660ZH	B4/1 660ZK	B4/1 660ZN	B5/1 660ZT
combinations				
size symbol	44	B2/2 660ZL 11	B2/2 660ZP 10	07
Collector area (m²)	7.08	6.44	5.40	5.45
Absorption area (m²)	6.21	5.44	4.52	4.55
	<b>£2270</b>	<b>£2290</b>	<b>£2040</b>	<b>£2490</b>

Includes: collectors, flashing, seals, flow & return pipes (1.8m), collector connector

Possible installation range 30° - 90°

Other roof only solar systems available

### LIGHT TUNNELS

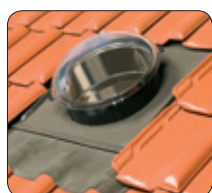
In order to supply interior with natural light where there are no opportunities to install roof or vertical windows, an effective solution can be a light tunnel. Dimly lit interiors without access to the natural light can become light and comfortable to use. There are two types of light tunnels available: 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.



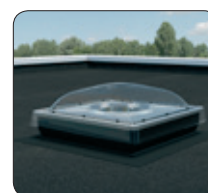
SLT



SRT



SF/SR



SRF/SFF

NEW

SLT with standard flashing		
Diameter/Tube length [cm]	35/200	55/200
	<b>£250</b>	<b>£320</b>

SRT with standard flashing		
Diameter/Tube length [cm]	25/200	35/200
	<b>£265</b>	<b>£305</b>

SF with standard flashing		
Diameter/Tube length [cm]	350	550
	<b>£265</b>	<b>£365</b>

SR with standard flashing			
Diameter/Tube length [cm]	250	350	550
	<b>£275</b>	<b>£370</b>	<b>£545</b>

SRF for flat roof with rigid tube		
Diameter/Tube length [cm]	350	550
	<b>£280</b>	<b>£440</b>

SLT Plus with lamp and standard flashing		
Diameter/Tube length [cm]	35/300	55/300
	<b>£280</b>	<b>£355</b>

SRT Plus with lamp and standard flashing		
Diameter/Tube length [cm]	25/200	35/200
	<b>£300</b>	<b>£340</b>

SF-L with additional illumination and standard flashing		
Diameter/Tube length [cm]	350	550
	<b>£275</b>	<b>£380</b>

SR-L with additional illumination and standard flashing			
Diameter/Tube length [cm]	250	350	550
	<b>£290</b>	<b>£385</b>	<b>£570</b>

SFF for flat roof with flexible tube		
Diameter/Tube length [cm]	350	550
	<b>£230</b>	<b>£380</b>

### NON-PERMEABLE UNDERLAY

The non-permeable roofing underlay is a material shielding insulation and roof structure from water vapour penetration from habitable spaces. It is laid between insulation and finishing elements – most often gypsum cardboards. It constitutes a barrier for water vapour forming inside the building, protecting, at the same time, wooden elements of the roof structure and insulation against moisture. The non-permeable underlay fulfils the function of an additional windproofing – prevents heat losses as a result of free air circulation and roof draughts.

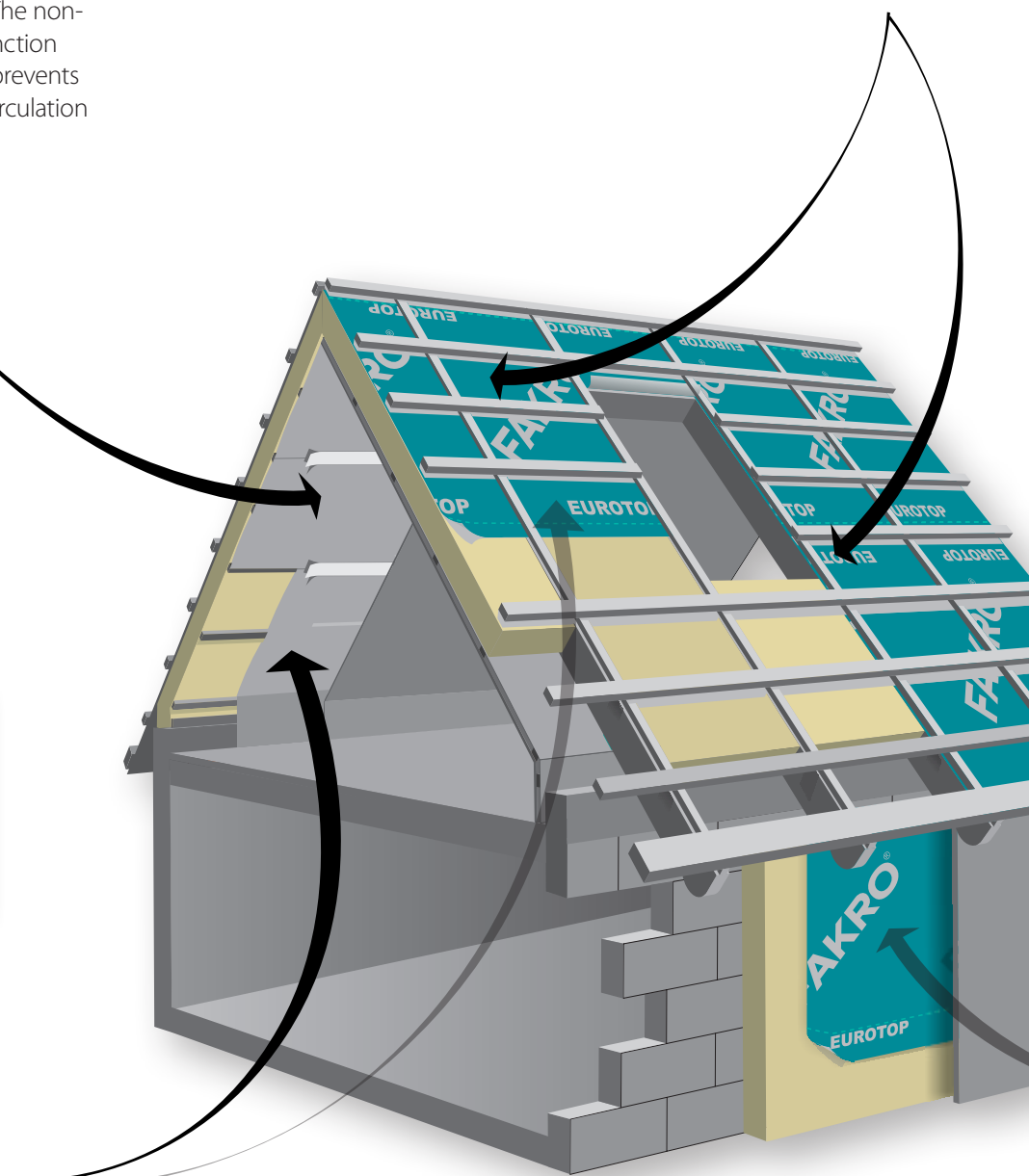


### BANDS FOR ROOFING UNDERLAYS AND MEMBRANES

The correct installation of non-permeable roofing underlays requires application of proper joining bands. It ensures correct functioning of the initial roofing layer and non-permeable layer. Any sealing work and damage repair in membranes or underlays should be performed with the use of purpose-built bands.

### HIGH VAPOUR PERMEABLE MEMBRANES

The EUROTOP membrane is a primary roofing layer which improves roofing tightness. It solves the problems related to condensation water accumulating in insulation and roof structure. The EUROTOP membranes can be used as initial roofing of sloping roofs – in case of both habitable and non-habitable loft spaces, and in external walls as windproofing.



## EUROTOP ROOFING UNDERLAYS AND MEMBRANES

	weight [g/m <sup>2</sup> ]	roll dimensions [m]
<b>MEMBRANES WITH HIGH VAPOUR PERMEABILITY</b>		
EUROTOP L2	90	1.5 x 50
EUROTOP P2	95	1.5 x 50
EUROTOP N15	115	1.5 x 50
EUROTOP N35	135	1.5 x 50
EUROTOP S65	165	1.5 x 50
EUROTOP S4	155	1.5 x 50
EUROTOP T150	150	1.5 x 50
EUROTOP T180	180	1.5 x 50
<b>LOW VAPOUR PERMEABILITY MEMBRANES</b>		
KF96 SILVER	98	1.5 x 50
KF10 STANDARD 1	10	1.5 x 50
<b>NON-PERMEABLE ROOFING UNDERLAYS</b>		
TERMOFOL 90	90	1.5 x 50
EUROTOP ACTIV V110	110	1.5 x 50

<b>BANDS FOR ROOFING MEMBRANES AND UNDERLAYS</b>	
EUROBAND W	One sided adhesive on polypropylene cloth 60mm x 25m
EUROBAND P	One sided adhesive on polypropylene foam 40mm x 30m
BUTYLBAND	Two sided adhesive butyl 10mm x 20m
EUROBAND	One sided adhesive butyl /aluminium film 50mm x 10m
ALUFIX BOPP	film aluminium coated 75mm x 50m

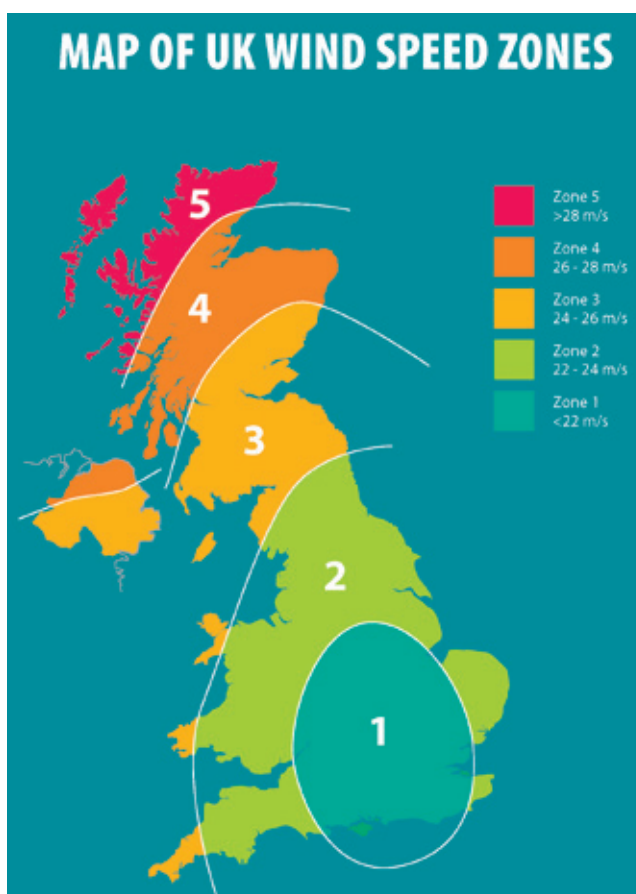
We supply a wide range of roofing underlays and membranes. Please see our brochure for details



### LOW VAPOUR PERMEABILITY MEMBRANES

The low vapour permeability membranes are products used as initial roofing in sloping roofs. Their basic task as an initial roofing layer is to seal the primary roofing and protect insulation fitted in the roof structure from moisture. Application of the low vapour permeable membrane as an initial roofing in case of buildings with habitable loft spaces necessitates the use of lower ventilation gaps between the membrane and insulating material in the roof structure.

### MAP OF UK WIND SPEED ZONES



#### Summary of test results for wind uplift resistance of FAKRO underlays to BS5534 Annex A

Underlay name	345mm batten gauge Battened lap	250mm batten gauge Battened lap	345mm batten gauge Taped lap
Eurolap N15	Zone 1 to 3	Zone 1 to 5	Zone 1 to 5
Eurolap N35	Zone 1 to 4	Zone 1 to 5	Zone 1 to 5*
Eurolap S4	Zone 1 to 3	Zone 1 to	Zone 1 to 5*
Eurolap S65	Zone 1 to 5	Zone 1 to 5*	Zone 1 to 5*

\* Result inferred from test results on other underlays



## 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<sup>2</sup>K) or, with the **LTK Thermo**, a 60mm hatch (U-value 0.76W/m<sup>2</sup>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



Finishing lining slats LXL

### LWK Komfort



### LTK Thermo



### 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 U3*	FNP U3*	FNP U3*	FNP U3*
78	FTP-V U3 PTP U3	FWR U3 FWL U3 FTP-V U3 PTP U3	FNP/D U3* FTP-V U3 PTP U3	FNP/D U3* FTP-V U3 PTP U3	FNP/D U3* FTP-V U3 PTP U3	FNP/D U3* FTP-V U3 PTP U3
98	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3 FWR U3 FWL U3	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3 FWR U3 FWL U3	FWL U3	FTP-V U3 PTP U3	FTP-V U3 FPP-V U3
118	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3 FWR U3 FWL U3	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3 FWR U3 FWL U3	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3 FWR U3 FWL U3	FTP-V U3 FPP-V U3 PTP U3 FSP FWR U3 FWL U3	FTP-V U3 PTP U3
140	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3 FHP FWR U3 FWL U3	FTP-V U3 FPP-V U3 PTP U3 PPP-V U3 FHP FWR U3 FWL U3	FTP-V U3 FPP-V U3 PTP U3 FSP	
160			FYP-V U3 FTP-V U3 PTP U3	FYP-V U3 FTP-V U3 PTP U3 PTP U3**		
180			FYP-V U3	FYP-V U3		
186			FDY-V U3	FDY-V U3		
206			FDY-V U3 FYP-V U3	FDY-V U3 FYP-V U3		
235			FDY-V U3***	FDY-V U3***		
255			FDY-V U3*** FGH-V P2	FDY-V U3*** FGH-V P2		

HEIGHT in cm	WIDTH in cm			HEIGHT in cm	WIDTH in cm	
	78	94	114		46	54
60	BDL P2 BDR P2 BXP P2	BXP P2	BXP P2	55	WGT	
75	BDL P2 BDR P2 BXP P2	BDL P2 BDR P2 BXP P2		61	WGI/C	
95	BDL P2 BDR P2	BDL P2 BDR P2	BDL P2 BDR P2	75	WGT WGI	
				98		WLI/C

Flat Roof Windows

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.



**FAKRO®**

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Fakro reserves the right to change specifications and technical parameters of products without prior notice.