



## **FLAT ROOF WINDOWS**

The ideal solution for providing natural daylight



*All together better*



# FLAT ROOF WINDOWS

## MEANS OF ILLUMINATION



The benefits of natural illumination of buildings are unquestionable but in those with flat roofs it is not always possible to install sufficient standard vertical windows. A source of natural light should be available in any living space to make its occupants feel comfortable. The ideal solution for providing light is the installation of specially designed products for flat roofs.

The Fakro type G product range includes flat roof windows which are non-opening (DXG), manually opening (DMG) or electrically operated (DEG).

Fakro flat roof products bring the very highest standard of natural light to interiors. They also provide ventilation and offer exceptional functionality. In short, they can transform any room under a flat roof.

# FLAT ROOF WINDOW

## STRUCTURE

A flat roof window frame is constructed using reinforced multi-chamber PVC profiles. The internal surface of the frame is white (RAL 9010). The material used in the profile features high resistance against acids and has low moisture absorption. As a result, the window can be installed in every room.



Profiles are filled with insulation material, thus additionally improving the energy saving parameters of the product. The specially profiled covering material under the frame drip cap further improves the ultimate finish between the window and the roof covering.



The servo-motor in electrically opened windows is positioned in the sash and is protected against adverse weather conditions such as rain and snow.

This ensures trouble free operation of the servo-motor and all control elements.



The electrically operated windows (DEG) have a built-in sensor that automatically activates the sash closing function when it rains.

Electric actuator situated in the window sash allows for sash maximum micro-opening up to 150mm.



### **10 Year Warranty**

for windows, lifetime warranty against hail.

# WINDOWS FOR FLAT ROOFS

## NATURAL DAYLIGHT

The new range of technologically advanced flat roof windows give smart aesthetics and provide an alternative solution for bringing natural daylight into rooms below a flat roof.

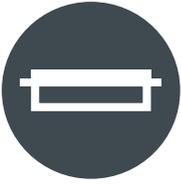
**DEG**  
**DMG**  
**DXG**



Product Code	Description
<b>FRW80EX01</b>	DEG - P2 01K 60x60 Flat Roof Window
<b>FRW80EX02</b>	DEG - P2 02K 60x90 Flat Roof Window
<b>FRW80EX03</b>	DEG - P2 03K 70x70 Flat Roof Window
<b>FRW80EX04</b>	DEG - P2 04K 80x80 Flat Roof Window
<b>FRW80EX05</b>	DEG - P2 05K 90x90 Flat Roof Window
<b>FRW80EX06</b>	DEG - P2 06K 90x120 Flat Roof Window
<b>FRW80EX07</b>	DEG - P2 07K 100x100 Flat Roof Window
<b>FRW80EX08</b>	DEG - P2 08K 120x120 Flat Roof Window
<b>FRW80EX09</b>	DEG - P2 09K 140x140 Flat Roof Window
<b>FRW80EX10</b>	DEG - P2 10K 100x150 Flat Roof Window
<b>FRW80EX11</b>	DEG - P2 11K 120x220 Flat Roof Window

Product Code	Description
<b>FRW80EW01</b>	DMG - P2 01K 60x60 Flat Roof Window
<b>FRW80EW02</b>	DMG - P2 02K 60x90 Flat Roof Window
<b>FRW80EW03</b>	DMG - P2 03K 70x70 Flat Roof Window
<b>FRW80EW04</b>	DMG - P2 04K 80x80 Flat Roof Window
<b>FRW80EW05</b>	DMG - P2 05K 90x90 Flat Roof Window
<b>FRW80EW06</b>	DMG - P2 06K 90x120 Flat Roof Window
<b>FRW80EW07</b>	DMG - P2 07K 100x100 Flat Roof Window
<b>FRW80EW08</b>	DMG - P2 08K 120x120 Flat Roof Window
<b>FRW80EW09</b>	DMG - P2 09K 140x140 Flat Roof Window
<b>FRW80EW10</b>	DMG - P2 10K 100x150 Flat Roof Window
<b>FRW80EW11</b>	DMG - P2 11K 120x220 Flat Roof Window

Product Code	Description
<b>FRW80EU01</b>	DXG - P2 01K 60x60 Flat Roof Window
<b>FRW80EU02</b>	DXG - P2 02K 60x90 Flat Roof Window
<b>FRW80EU03</b>	DXG - P2 03K 70x70 Flat Roof Window
<b>FRW80EU04</b>	DXG - P2 04K 80x80 Flat Roof Window
<b>FRW80EU05</b>	DXG - P2 05K 90x90 Flat Roof Window
<b>FRW80EU06</b>	DXG - P2 06K 90x120 Flat Roof Window
<b>FRW80EU07</b>	DXG - P2 07K 100x100 Flat Roof Window
<b>FRW80EU08</b>	DXG - P2 08K 120x120 Flat Roof Window
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<b>FRW80EU10</b>	DXG - P2 10K 100x150 Flat Roof Window
<b>FRW80EU11</b>	DXG - P2 11K 120x220 Flat Roof Window



D\_G window construction consists of 4mm or 6mm toughened glass depending on the unit size combined with a unique aluminum black profile. The system is factory applied to the frame which substantially reduces the complete window installation time.

The excellent thermal properties of these windows are attributed to the thermally broken multi-chamber PVC profiles complete with thermal insulation. The  $U_w$  heat transfer coefficient for the complete window is  $0.92 \text{ W / m}^2\text{K}$ , which far exceeds similar systems available on the market.



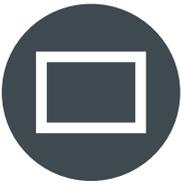
An abundance of natural light, the specially designed shape of the window profiles provides a glazing area up to 16% greater than similar systems.



10 year warranty for windows, lifetime warranty against hail.



Windows are offered with a safety P2 glazing unit equipped with internal laminated glass in P2A Class ensuring safety of use and protection against glass shards in case of damage. Optionally, there is also available anti-burglary glazing P4 in P4A Class.



Windows are available in 11 standard sizes from 60x60cm to 140x140cm and 120x220cm. This assists in the replacement of existing skylights (often in non-standard dimensions) which fail to meet current Part L requirements.

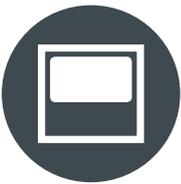


Windows can be mounted on an additional XRD base with a height of 15cm, in order to uplift the window for installation in e.g. green roofs.

In case there are three frames needed, the use of the XRD/W is advised, available as well in XRD/A version to be installed with D\_G.



Suitable for roof pitches  $2^\circ$  to  $15^\circ$ .

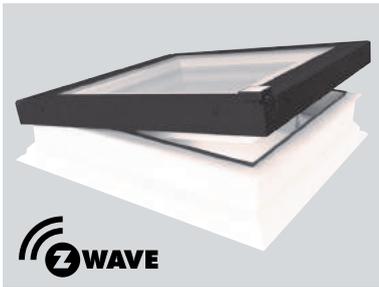


The structure of the window enables installation of internal accessories.



Well thought out design, with innovative patent pending method to provide rainwater drainage away from the window. The rain sensor installed in the DEG range automatically closes the sash in the event of rain.

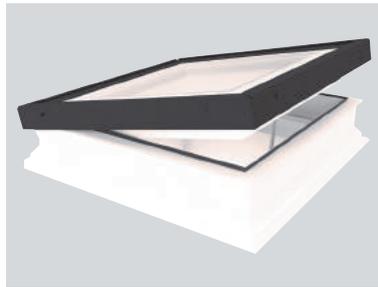
### Electric z-wave control



**DEG**

- ▶ Electrically opened with wireless Z-Wave system
- ▶ Included in the kit: AC adaptor, remote control, rain sensor
- ▶ Sash tilts 15cm

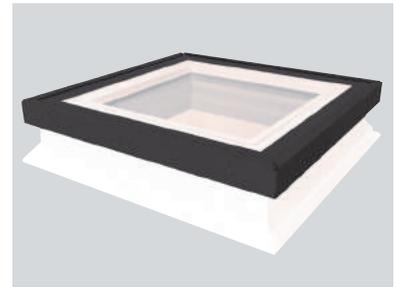
### Manual opening



**DMG**

- ▶ Opened manually by means of ZSD control rod 2.2m long (included)
- ▶ Sash tilts 30cm

### Non-opening



**DXG**

- ▶ Non-opening

FLAT ACCESS ROOF LIGHTS											
Window size [cm]	60 x 60	60 x 90	70 x 70	80 x 80	90 x 90	90 x 120	100 x 100	120 x 120	100 x 150	140 x 140 <sup>1</sup>	120 x 220 <sup>1</sup>
Glazing area [m <sup>2</sup> ]	0.23	0.37	0.33	0.46	0.6	0.83	0.77	1.16	1.21	1.63	2.23
Size symbol	01K	02K	03K	04K	05K	06K	07K	08K	10K	09K	11K
<b>DEG P2</b> U=0,92 W/m <sup>2</sup> K * Electrically opened	+	+	+	+	+	+	+	+	+	+	+
<b>DMG P2</b> U=0,92 W/m <sup>2</sup> K * Opened manually by means of control rod 2.2m long included	+	+	+	+	+	+	+	+	+	+	+
<b>DXG P2</b> U=0,92 W/m <sup>2</sup> K * Non-opening	+	+	+	+	+	+	+	+	+	+	+

\* according to EN 14351-1



Position of hinges and actuators in D\_G opening windows.

<sup>1</sup> For D\_G windows there are two screw actuators which come only in sizes of 140x140cm and 120x220cm.



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For more information about Flat Roof Windows,  
call our customer services team on **0800 988 3047**,  
or visit **[www.eurocell.co.uk](http://www.eurocell.co.uk)**

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