

What is background ventilation?

Background ventilation is the flow of external air into a dwelling that must be provided without opening a window.

How much ventilation is required?

Approved Document F of the 2000 Building Regulations, 2006 Edition states:

A typical habitable room (e.g. living room or bedroom) must have a minimum of 5,000mm² equivalent area of background ventilators.

What is equivalent area?

Equivalent area is a measure of the aerodynamic performance of a ventilator. It is the area of a sharp-edged opening that gives the same airflow rate as the actual ventilator when tested under the same pressure difference.

Can all roof windows provide sufficient background ventilation to satisfy Approved Document F?

No. If the roof window cannot provide at least 5,000mm² equivalent area of ventilators into a habitable room, that room will require additional vented windows or additional separate ventilators at an extra cost!

BBA test report No. 5577 dated 9th April 2008 shows that a CP04 Keylite Roof Window (780mm wide) satisfies this requirement, providing a total of 6,567mm² equivalent area of ventilation.

The amount of background ventilation required for each dwelling varies depending on size, living area and the intended number of occupants. For example, a two storey building with a floor area of 120m² and a floor to ceiling height of 2.5m on each storey will require a total area of background ventilators of 55,000 mm² equivalent area across the whole building. Each Keylite Roof Window 780mm wide (or greater) contributes 6,567mm² (or greater) towards the whole building's requirement. Keylite can calculate and provide advice on their roof window contribution towards your particular building's ventilation requirements.

Can a roof window be opened to provide ventilation?

A roof window latched in an open position (night vent) is not considered appropriate by the NHBC for providing background ventilation.

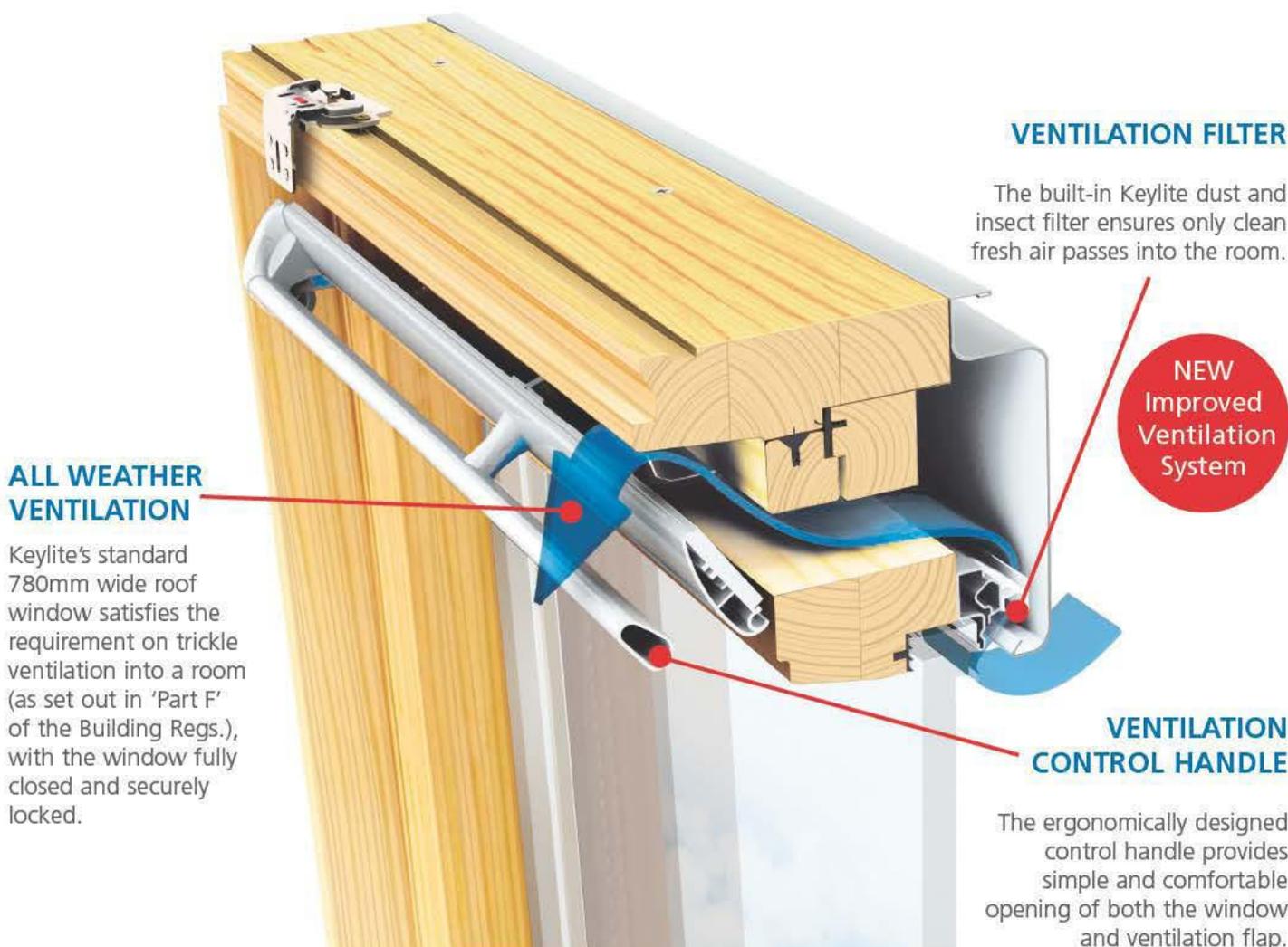
This leaflet is to be used for guideline purposes only. For a definitive rule on each application please consult Approved Document F.

How do Keylite Roof Windows meet the regulations?

The Keylite Roof Window ventilation system is specifically designed to meet the requirements of Part F of the Building Regulations.

Roof Window Width	Keylite Roof Window Sizes	Equivalent Area	Meets Minimum Requirement
550mm	01 & 02	3,879mm ²	Kitchens, Bathroom, Sanitary room, Utility room
660mm	03	4,658mm ²	Kitchens, Bathroom, Sanitary room, Utility room
780mm	04, 05 & 06	6,567mm ²	All rooms in dwelling
940mm	07	7,914mm ² *	All rooms in dwelling
1,140mm	08	9,597mm ² *	All rooms in dwelling
1,340mm	09	11,281mm ² *	All rooms in dwelling

*Equivalent Area value extrapolated from 780mm wide Keylite Roof Window test results.



IMPORTANT: Not all Roof Window manufacturers satisfy this requirement!