



Triple Glazed Windows & Doors

The windows of the Visitor Centre have been replaced with triple glazed windows which have a U-value of 1.6W/m2K. These windows are much more energy efficient and will reduce the energy consumption of the building resulting in lower heating bills for the centre. The Visitor Centre's doors have also been replaced with triple-glazed doors.

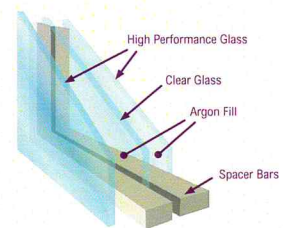
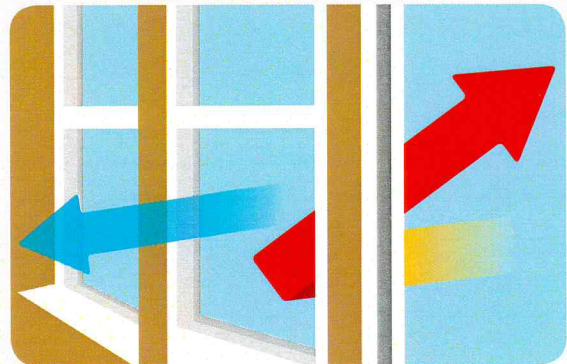


How it Works

Triple-glazed windows have three sheets of glass with gaps between them which are filled with Argon that replaces the air inside the glass unit to create an insulating barrier which keeps heat in. Since the gas is heavier than air and is not in continuous motion like air, the ability for cold air to move through the window through convection is greatly reduced, so its addition between the sheets of glass provides extra insulation and creates energy efficient windows.

The U-value of windows measures the rate of heat transfer through the window over a given area. The lower the U-value, the greater the window's resistance to heat flow, the better its insulating value and ability to keep out the heat and cold.

	U-value
Single glazed window with standard glass	5.6
Double glazed window with standard glass	2.8
Current Building Regulations	1.8
Triple-glazed windows & doors installed at the Visitor Centre	1.6



For Your Home

Energy-efficient double or triple glazing will keep your home warmer and quieter, as well as reducing your energy bills and carbon emissions. Replacing all single-glazed windows with B-rated double glazing could reduce energy bills and typically save 680kg of CO₂ a year. The lower the U-value, the less heat will be needlessly escaping.

A less costly way to increase a window's efficiency is to fit draught-excluding strips and to apply purposely designed plastic sheeting to the inside of each pane, otherwise known as secondary glazing, which can be done DIY.

For more information, please email: sustainability.team@bedford.gov.uk