

# Rooflights



# ROOFLIGHTS

Glazing to complement our flat roofs

Bauder can satisfy all your rooftop glazing requirements, from standard modular units to specialist structural glazing. For both new build and refurbishment projects your experienced area technical manager will be able to fully advise and guide you in the selection of suitable rooflights.

In refurbishment situations we will ensure that a survey is undertaken to establish the size and details of the existing glazing, along with the associated supporting kerb, to ensure that the new product proposed will provide a perfect replacement.

From the initial survey to the completed installation you are assured of the best technical support and advice.

Our rooflights are installed with a comprehensive guarantee to give total confidence and complete peace of mind.

All our roof glazing products are manufactured to comply with current Building Regulation and Health & Safety requirements and are fully compatible with our roof waterproofing systems.



The Euroglaze range of modular rooflights are certified by the BBA under certificate number 05/4279.



## Bauder Euroglaze

The Bauder Euroglaze is a superior modular rooflight designed to provide high standards of illumination, insulation and ventilation to the interior of flat roofed buildings. All are fully compatible with our roof waterproofing systems and hold BBA certification.

These bespoke modular rooflights are made to suit the desired size with dimensions between 600 x 600mm up to 2400 x 1200mm.



Euroglaze rooflights can be made to fit any roof opening size

## Glazing

The triple skinned polycarbonate, dome or pyramid profiled glazing can be supplied either completely clear, or with a diffused inner skin.

## Fire Performance

Fire performance classifications for Bauder Euroglaze rooflights are as follows:

- BS476 Part 7 – Class 1
- Building Regulation classification - TPa. (Rigid). can be deemed as class O.

## Upstand

Euroglaze is supplied with an integral PVC upstand, in brilliant white. The upstand profile is dependent on the particular application and rooflight specification.

## Security Frame

Euroglaze features a brilliant white aluminium security frame to conceal all glazing fixings, thereby improving the security of the rooflight unit.

## Thermal Performance

Euroglaze with its integral kerb and triple skin polycarbonate glazing achieves Ud Values as low as 1.6W/m<sup>2</sup>K.

## Ventilation Options

Euroglaze is supplied as standard with closable 'hit and miss' vents in two sides, but additional vents can be supplied if required.

Hinged, wormgear opening rooflights and units with a power fan incorporated into the glazing are also available.

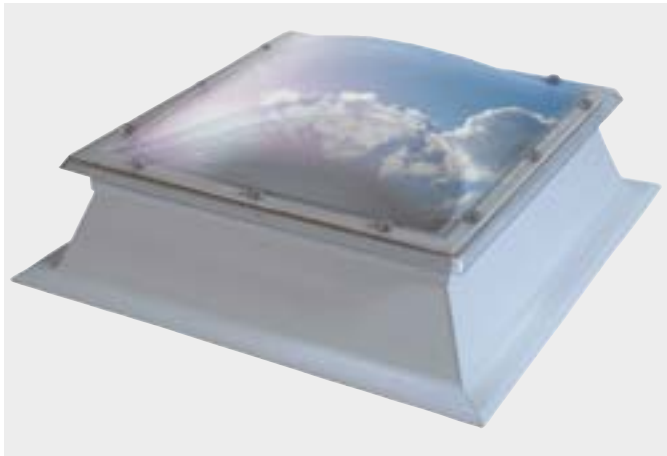
## Access Hatches

Euroglaze Access Hatches are available for applications where both daylight and access to the roof is required.

## BauderDOME

The BauderDOME standard range of modular rooflights are designed to provide a simple but effective solution to the requirement for daylight and ventilation to the interior of flat roofed buildings.

Available in a wide range of standard sizes, they offer a commercial alternative to the specifier on a limited budget whilst providing an excellent solution.



### Glazing

The triple skinned polycarbonate, dome or pyramid profiled glazing can be supplied either completely clear, or with a diffused inner skin.

### Upstand

The integral upstand of BauderDOME is manufactured in UPVC at a height of 237mm, to allow successful waterproofing. The profile of the upstand makes it easy to directly apply all kinds of our waterproofing membranes. Bitumen membranes, synthetic single ply membranes and cold applied liquid systems are all compatible.

### Fire Performance

Fire performance classifications for BauderDOME are as follows:

- BS476 Part 7 – Class 1
- Building Regulation classification - TPa. (Rigid). Can be deemed as class O.

### Thermal Performance

BauderDOME with its integral GRP kerb and triple skin glazing achieves a Ud value of 1.8W/m<sup>2</sup>K.

### Ventilation Options

BauderDOME is supplied unvented as standard, but closable 'hit and miss' vents can be incorporated in 2 sides where required. Hinged, wormgear opening rooflights and units with a power fan incorporated into the glazing are also available.

## Bauder Special Modular Rooflights

Bauder can satisfy any special modular rooflight requirements that may arise.



### Circular rooflights

Circular units with thermally broken metal upstands and triple skinned polycarbonate dome shaped glazing are available up to 1800mm diameter. These are especially useful as replacements for existing glazing on roof refurbishment projects with circular apertures.

### Glass rooflights

Glass glazed modular rooflights are available, incorporating the UPVC upstand that features in the Euroglaze range. As standard, the glass is a 31mm flat double glazed unit, comprising 6mm clear toughened outer leaf with low 'E' coating, 16mm argon filled cavity and 9.5mm clear laminated inner leaf. The glazing is set at an angle of 3° to aid rainwater run-off.

# ROOFLIGHTS

Specialist glazing for our flat roofs

## Continuous Rooflights

Continuous rooflights provide an excellent source of natural daylight for any new build or refurbishment project. Bauder continuous rooflights are triple glazed as standard and are available in a width of up to 2.4m.



The range for fast track procurement is available in the following formats:

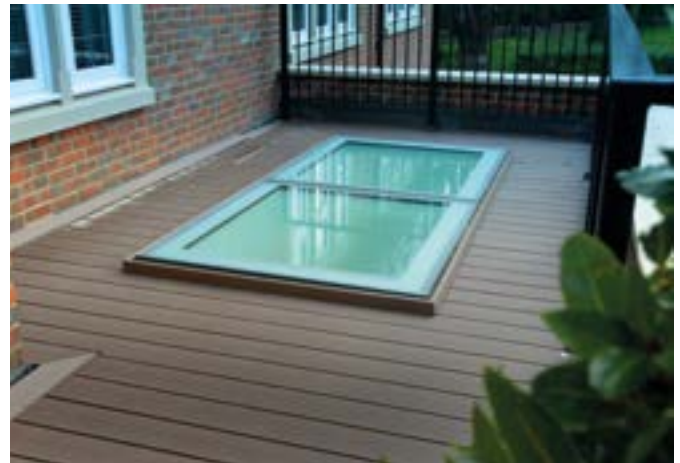
- Thermo-formed Barrel Vaults
- Linked Pyramids
- Linked Domes

Bauder Continuous Rooflights are made of enhanced UV-protected polycarbonate with vented airspaces, meeting Part L criteria. The cascade water management system ensures that any moisture is drained to the outside of the structure and that air leakage satisfies Part L requirements.



## Walk-On Rooflights

The Bauder Walk-On rooflight allows and supports foot traffic on roof terraces and gardens and ground floor areas over basement rooms whilst providing natural daylight to the rooms below.



The rooflight is set into the structure to allow adjacent decking or paving slabs to be set level and sit flush with the top face of the rooflight unit ensuring a smooth surface. Care must be taken in wet or icy conditions. Etched glass can offer additional safety.

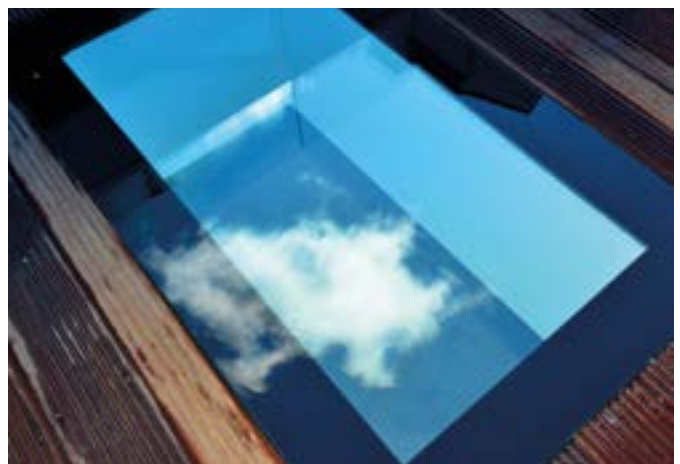
The double-glazed units are comprised of **30mm** clear toughened laminated outer pane, a 16mm airspace and **9.5mm laminated** low E inner pane. The kerb is heavy duty folded aluminium which is thermally broken, and the standard finish is powder coated white, although other colours are possible. The glazing is available in rectangular, square or round shapes and is set to minimal fall to prevent water ponding

Bauder Walk-On rooflights are custom designed, detailed and manufactured for each individual application. Each rooflight is delivered fully assembled ready for installation on a prepared flat level roof opening.

Loading capacities

- Floor loading – 1.5 kN/m<sup>2</sup>
- Concentrated loading – 2.0 kN/m<sup>2</sup>

**Note:** Higher loadings can be catered for.



### Modular Link Glazing

The Bauder Modular Link Glazing System is a panel glazing system suitable for both new build and refurbishment projects. The custom built, aluminium framed panels are designed and built for each individual building.



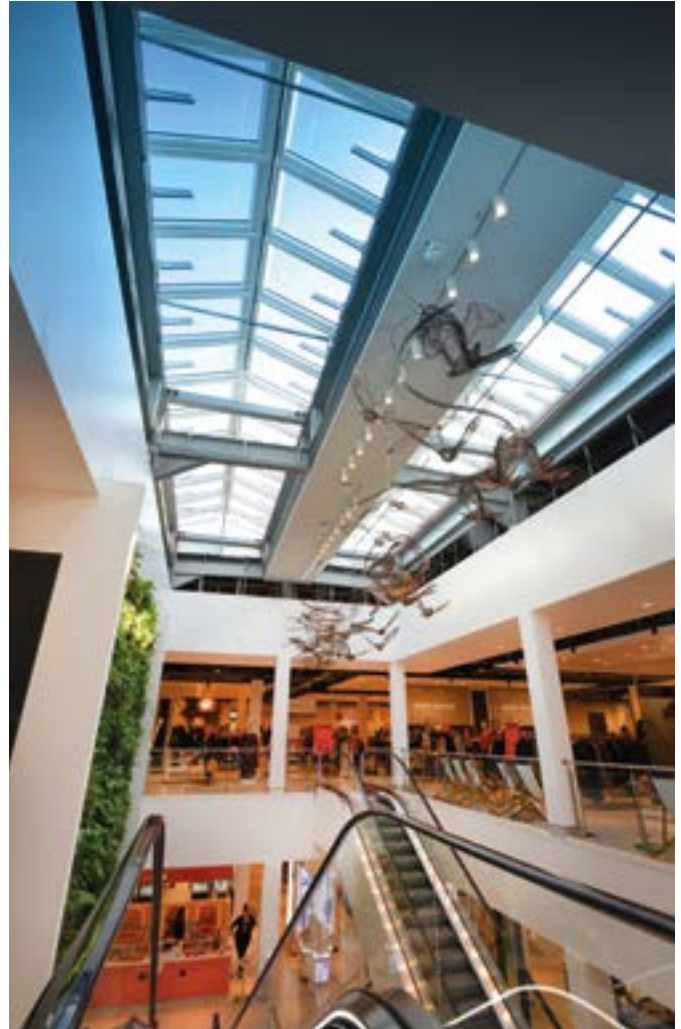
Bauder Modular Link Glazing is:

- Lightweight
- Impact resistant
- Thermally efficient
- Robust
- Easy to handle
- Fully assembled in the factory
- Available in opal, bronze and grey
- Available with a comprehensive guarantee

Bauder Modular Link Glazing can be installed at a minimum 10° pitch and can be used for northlights, patent glazing replacement and monopitch rooflights and on ridges and gutters. This versatility provides designers with new options to introduce natural light into building projects.

### Structural Rooflights

Bespoke structural glazing installations allow designers and architects complete freedom when incorporating natural daylight to a roofing project.



Our range of structural glazing solutions offers an extensive choice of high quality material including polycarbonate, glass and the latest Nanogel® technology. Alongside this we incorporate in all our offerings;

- Cascade water management system
- Custom engineered connections
- Bespoke closing functionality
- Custom flashings
- Comprehensive warranty

There are a number of Bauder Structural Rooflights that can be utilised to fulfil the requirements of a roof refurbishment or enhance the design of a new build project.

- Mono-pitched
- Pitched polygon
- Self-supporting pyramid
- Ridge light
- Hipped-end
- Low-profiled barrel vault

# AUTOMATIC OPENING VENTS

## Smoke Vents

AOVs improve the conditions inside a building in the event of a fire by allowing hot air and smoke out, and allowing cool air to flow in.



This system is particularly effective in protecting occupants attempting to evacuate or awaiting rescue, as well as reducing the risk for firefighters.

AOV's form part of a building's fire protection system and will require the services of a specialist M&E contractor for correct operation. It is important to remember that an AOV is not an access hatch. It is a dedicated outlet for the removal of smoke from a building.

AOV's are particularly recommended in areas with low or no other ventilation outlets and high traffic routes such as single stair apartment blocks; vertical smoke shafts; common escape routes and enclosed car parks.

Bauder AOV's are:

- CE certified, tested to EN 12101-2.
- Glazed in glass, polycarbonate or a solid metal lid.
- Available in thermally broken insulated metal to achieve a U Value as low as 1.0 W/m<sup>2</sup>k.
- An uninsulated version suitable for unheated spaces, such as smoke shafts, is available.
- 140° opening.
- Can be powder coated to any RAL colour.