

ROOFLIGHTS . GLASS PRODUCTS . BESPOKE PRODUCTS



BESPOKE DESIGN

BY JET COX LTD



**DRIVEN BY
DAYLIGHT**

WWW.JET-COX.CO.UK





**WHATEVER YOUR REQUIREMENTS
JET COX LTD HAVE THE SOLUTION**

THE BESPOKE SIDE TO JET COX LTD

Creating customised solutions requires creativity, flexibility and desire.

At Jet Cox Ltd all of our knowledge and experience is called upon when we partner with architects and contractors to create unique daylight solutions for individual construction projects.

The quality of manufacture determines the quality of the product.

All Jet Cox products are designed, manufactured and supplied fully certified to meet high technical and performance requirements. Sophisticated designs offer energy-efficient products based around cost-effective building maintenance.

Installation instructions are provided with all our products and Operational & Maintenance literature is available on request.

A good solution always begins with a good idea...
...share your idea with Jet Cox Ltd and see how we can make it a reality.

Jet Cox Bespoke Products

DRIVEN BY DAYLIGHT

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JET COX BARREL VAULT

From industrial and agricultural buildings to retail developments, hospitals, libraries, education establishments and residential projects, the Jet Cox Range of Barrel Vaults bring the benefits of evenly distributed natural daylight to your working, living or recreational space.

Suitable for new build or refurbishment projects this high quality, versatile 'out of plane' continuous rooflight system consists of extruded aluminium profile sections, powder coated as required, with a choice of solid polycarbonate or multiwall glazing. The Jet Cox Barrel Vault is a self supporting system, incorporating an aluminium kerb adaptor and is designed to be fitted to a pre-formed, weathered, builder's kerb (by others).

All Barrel Vaults are manufactured and tailored to your individual requirements and offer a light source of unlimited length with widths ranging in size from 600mm (solid polycarbonate glazing) / 1000mm (multiwall glazing) to 7000mm; and because it's supplied as a complete kit of tailor-made components, the installation time on site is minimised. Units > 7000mm are possible but are not self supporting units and would therefore require a supporting structure (by others).

Made to measure, the Barrel Vault range allows for special configurations and can incorporate intersections and changes in direction.

TABLE OF 'U' VALUES / LIGHT TRANSMISSION / 'G' VALUES

	Glazing	Light Transmission	'G' Value Solar Heat Gain	'U' Value
Multiwall Glazing				
10mm (4 Wall)	Clear	68%	65%	2.5 W/m²K*
	Opal	60%	60%	
	Cool & Clear	52%	49%	
16mm (6 Wall)	Clear	60%	57%	1.8 W/m²K*
	Opal	50%	50%	
	Cool & Clear	40%	38%	
Solid Polycarbonate Glazing				
Single	Clear	88%	82%	5.3 W/m²K*
	Opal	49%	62%	
	Cool & Clear	56%	45%	
Double	Clear	77%	75%	2.7 W/m²K*
	Opal	43%	56%	
	Cool & Clear	50%	38%	
Triple	Clear	68%	70%	1.8 W/m²K*
	Opal	38%	51%	
	Cool & Clear	44%	36%	
Quadruple	Clear	60%	65%	1.4 W/m²K*
	Opal	33%	48%	
	Cool & Clear	39%	34%	

CERTIFICATION / PERFORMANCE

- **BS EN 1026: Air Permeability**
- **BS EN 1027: Water Tightness Test**
- **BS EN 12211: Wind resistance Test**
- **Snow Load 700N/m²**
- **Wind Load 640N/m²**
- **Non Fragility (if applicable) in accordance with European Standards**
- **Ventilation options in compliance with Part F of the Building Regulations**
- **Glazing options in compliance with Part L of the Building Regulations**

GLAZING

- **Solid Polycarbonate factory assembled cassettes – double, triple or quadruple glazing – clear, opal, cool & clear or bronze**
- **Multiwall Polycarbonate – various options starting from 10mm Four Wall**

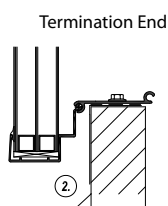
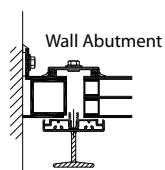
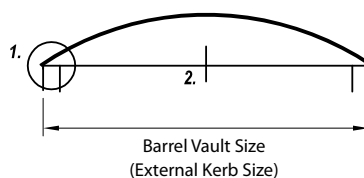
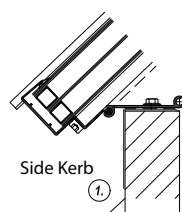
Depending on your requirements, other glazing specifications are available. Common alternatives:
 10mm + 10mm / No Cavity / U Value 1.6 W/m²K*
 10mm + 10mm / 20mm Cavity / U Value 1.2 W/m²K*
 16mm + 10mm / No Cavity / U Value 1.3 W/m²K*
 16mm + 10mm / 15mm Cavity / U Value 1.1 W/m²K*



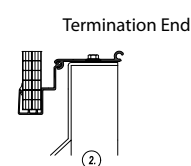
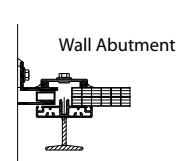
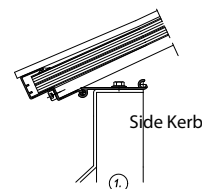
PROFILE DETAILS

Available in 'low rise' (1/5 the width) or 'high rise' semi-circular profiles, The Jet Cox Barrel Vault system is ideal for most flat or ridged roof applications.

**Standard Profile Detail
Solid Polycarbonate Triple Glazing**



**Standard Profile Detail
2 x 10mm Multiwall polycarbonate glazing**



Profiles can be supplied either mill finish aluminium or polyester powder coated

VENTILATION

Controllable ventilation is available either manually or electrically operated, for personal comfort or smoke ventilation.

Manually operated units are supplied with a spindle gear and are operated from floor level by means of a winding rod.

Electrically operated units are powered by a chain link actuator and are operated from a 24v or 230V power supply. Remote controls, wind, and rain sensors can also be specified for complete climate and temperature control.

BACKGROUND VENTILATION

Background ventilation is available by means of a trickle ventilation system to the aluminium kerb section or by means of extractor fan / Louvre vents to the gable end units.



Fixed



Full Flap

Max Rooflight
Width 2600mm



Half Flap

Max Rooflight
Width 5200mm



Twin Half Flap

Max Rooflight
Width 5200mm



Beam Flap

Opening
Size 2000mm

JET COX MONOPITCH

Jet Cox Monopitch rooflights provide maximum design flexibility and are available in a variety of standard and bespoke options.

Manufactured, as standard with a 10° pitch, the slim, thermally broken aluminium profiles ensure maximum natural daylight. The profiles can be left as mill finish aluminium or can be polyester powder coated to a RAL colour of choice.

Available to any length and from spans from 600mm to 3000mm*, the self supporting Monopitch rooflight can be mounted to flat or ridged roof constructions. Whilst less common on new builds, refurbishment of older premises with modern Monopitch engineering and design is easily achieved.

*larger sizes are available on request

CERTIFICATION / PERFORMANCE

- **BS EN 1026: Air Permeability**
- **BS EN 1027: Water Tightness Test**
- **BS EN 12211: Wind resistance Test**
- **Snow Load 700N/m²**
- **Wind Load 640N/m²**
- **Non Fragility (if applicable) in accordance with European Standards**

GLAZING

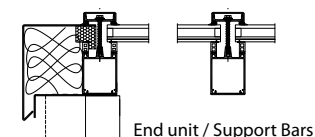
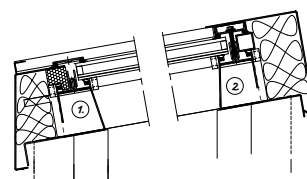
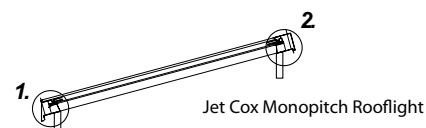
- **Solid Polycarbonate – single, double or triple glazing – clear, opal, cool & clear or bronze** (For full polycarbonate glazing specification please refer to the Glazing section, Barrel Vaults, Page 4).
- **Multiwall Polycarbonate – various options starting from 10mm Four Wall**
- **Glass** – Many factors need to be taken into consideration when specifying glass; thermal efficiency, light transmission, solar gain, fire classification, safety and acoustic performance are just a few. Please contact us with your project requirements and our experts will configure your glass specification.

VENTILATION

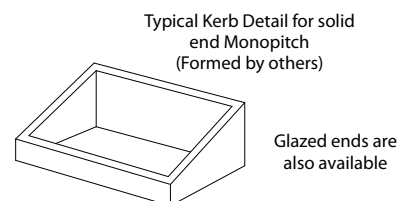
Controllable ventilation is available in a number of options

Natural ventilation is provided with top hung openers, either on a manual spindle or on a 230V electric operation. Smoke ventilation is typically offered as side or bottom hung on 24V electric actuators.

STANDARD SECTION DETAILS



Glazed panels are equally divided by support bars up to a maximum 900mm



JET COX RIDGELIGHTS

Jet Cox Ridgelights are manufactured from high quality, extruded, aluminium profiles and provide optimum levels of natural daylight to commercial or residential properties, modern or traditional.

Fixed or ventilated the Ridgelight is suitable for new build or refurbishment projects and can be installed to flat or pitched roofs. Engineered for ease of installation it is designed to be mounted to a pre-formed, weathered builder's kerb and can be manufactured in widths from 600mm to 4500mm* and to unlimited lengths.

Thermally broken aluminium sections, with additional insulated flashings, offer excellent thermal insulation properties that, specified with the appropriate glazing, will comply with current Building Regulation Part L requirements. Standard pitch is 30°.

*larger sizes are available on request

CERTIFICATION / PERFORMANCE

- **BS EN 1026: Air Permeability**
- **BS EN 1027: Water Tightness Test**
- **BS EN 12211: Wind resistance Test**
- **Snow Load 700N/m²**
- **Wind Load 640N/m²**
- **Non Fragility (if applicable) in accordance with European Standards**

GLAZING

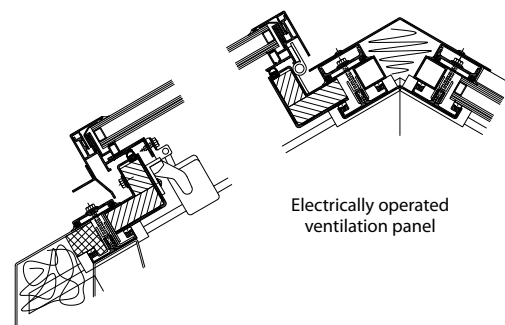
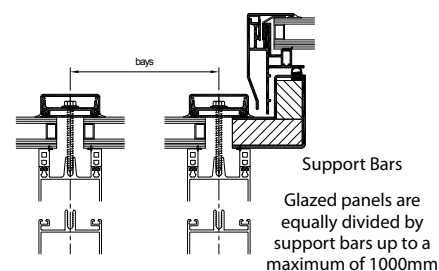
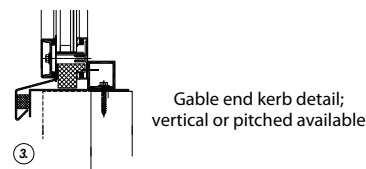
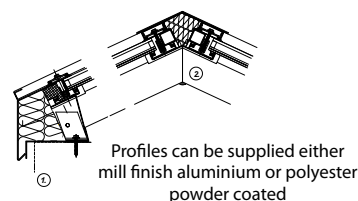
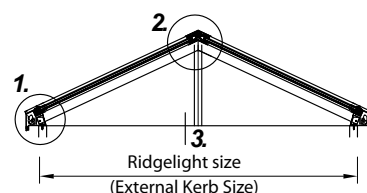
- **Solid Polycarbonate – single, double or triple glazing – clear, opal, cool & clear or bronze** (For full polycarbonate glazing specification please refer to the Glazing section, Barrel Vaults, Page 4).
- **Multiwall Polycarbonate – various options starting from 10mm Four Wall**
- **Glass** – Many factors need to be taken into consideration when specifying glass; thermal efficiency, light transmission, solar gain, fire classification, safety, acoustic performance are just a few. Please contact us with your requirements and we will calculate the necessary glass specification.

VENTILATION

Controllable ventilation is available in a number of options

Natural ventilation is provided with top hung openers, either on a manual spindle or on a 230V electric operation. Smoke ventilation is typically offered as side or bottom hung on 24V electric actuators.

STANDARD SECTION DETAILS





JET COX PYRAMID

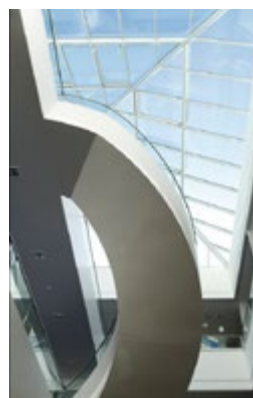
The Jet Cox Pyramid, Polygon and Dome range offers a stylish, tailor made solution that is guaranteed to provide both a feature and a function to any roof space.

Manufactured as a self-supporting unit this versatile rooflight, together with its slim, elegant, aluminium glazing bars, is designed to be installed directly on to a pre-formed, weathered builder's kerb and has been supplied for refurbishment and new build projects to schools, offices, residential properties and commercial buildings.

Available in a choice of glass, solid polycarbonate, or multiwall polycarbonate glazing, specifications can cater for acoustic, thermal, solar, safety or the fire requirements in even the strictest or demanding of builds.

- **Standard pitch is typically 30° however, the bespoke nature of this product allows a pitch from as little as 15° up to 60°**
- **Sizes from as little as 600mm to 4500mm* self-supporting**
- **Powder coated slim aluminium profiles to a RAL colour of choice**
- **Glass or Polycarbonate Glazing (domes are polycarbonate only)**
- **Optional ventilation for either comfort or smoke dispersion**
- **Part L compliance (dependant on glazing)**
- **Non-fragility**
- **Snow Load 700 N/m²**
- **Wind Load 640 N/m²**

*other sizes are available but would require structural support (by others)





JET COX CUSTOM



With a product range as comprehensive as Jet Cox Ltd you never need to risk multiple supply chains when specifying your natural daylight solution – whatever the application.

The products available from Jet Cox Ltd are by no means limited to those contained within this brochure.

With the capability to meet almost any brief, Jet Cox have unrivalled experience in the manufacture of rooflights that fit sympathetically into any building.

As specialists within our field we understand the desire to offer a truly bespoke and unique solution.

Should that need arise, and you wish to discuss your requirements and ideas please contact us and one of our experienced, knowledgeable members of staff will guide you through the possibilities.

Custom bespoke products are available in glass, solid polycarbonate or multiwall polycarbonate and can cater for all applications from residential to retail, private buildings to public buildings.

For further enlightenment please contact us today.





FURTHER INFORMATION

TECHNICAL SUPPORT

Full, in house, tecÚical support is available for our entire range of bespoke products.

Section details and data sheets are available on request.

Offering full sales and tecÚical advice we are able to assist with your project from enquiry through to after sales support. Whether it's assistance with specifying the right product or help with site surveying, our experienced, knowledgeable team can be contacted on 0121 530 4230 or at sales@jet-cox.co.uk.

SUPPLY & INSTALLATION

Jet Cox work with a number of approved installers to provide a complete supply and installation service.

Please contact us direct for more information.

GUARANTEES

All Jet Cox Ltd products are supplied with a minimum 10 year guarantee (certain exclusions apply).

All guarantees are subject to Jet Cox Terms & Conditions and are available on request.

PLEASE NOTE

The responsibility for determining that any building component complies with the relevant Building Regulation rests solely with the client or specifier.

Information in this publication is based on our general experience, best knowledge and belief.

Due to factors outwith the knowledge and control of Jet Cox Ltd, and which can effect the use of our products, no warranty is given with respect to such information.

The Company's policy is one of continuous improvement; accordingly Jet Cox Ltd reserve the right to alter specifications at any time without notice.

OUR CUSTOMER PROMISE

It's not just words, it's a commitment that Jet Cox Ltd believes is the core to our business. For over 60 years we have provided the construction industry with a product and service based on trust and loyalty and in that time we have established many working relationships that are as strong now as they were in the beginning.

Our commitment to you

- **Our customer's needs are put first**
- **To make rooflight specifying and purchasing as easy and as pain free as possible**
- **To be fair, honest and reliable**
- **To continually invest in staff development ensuring you receive the correct, most up-to-date and accurate advice**

Should we fall short of your expectations, please let us know – we want to work to put it right.

DRIVEN BY DAYLIGHT



COVERAGE, SUPPORT & SERVICE

Based from our offices in the Midlands, JET COX LTD are ideally located to service the entire UK.

We manage our own transport which allows us to guarantee a fast, reliable and efficient delivery service.

We have a dedicated internal and external sales and technical team who are on hand to assist, most of whom have over 10 years service with Jet Cox Ltd!



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