

## ZENON ARC - BARREL VAULT ROOFLIGHTS



Application	<ul style="list-style-type: none"> <li>Barrel-vaulted rooflight compatible with metal cladding and flat roof systems.</li> <li>Suitable for continuous runs of rooflight openings required for flat, low pitched, curved standing seam or secret fix roofing systems and in conjunction with separate in-plane rooflight liner.</li> <li>Other roof systems where a kerb can be created to mount the Arc includes Topdek type panels and membrane flat roof applications.</li> <li>Designed for both new build and refurbishment applications.</li> <li>Daylight opening sizes of 1000mm and 1200mm.</li> </ul>	
Benefits	<ul style="list-style-type: none"> <li>Prefabricated panels allows faster, simpler installation over built up systems.</li> <li>Diffused light transmission to reduce glare and improve daylight distribution.</li> <li>May include Insulator layer options for improved thermal performance.</li> </ul>	
Specification	Rooflight options	
Options	Zenon Arc Pro	Manufactured using the conventionally reinforced Zenon Pro rooflight material
	Zenon Arc Evolution	Manufactured using the high strength, low carbon Zenon Evolution material
	Insulation options	
	No insulation	Double skin rooflight with no insulation
	Zenon Insulator	Rooflight assembly can include an insulation layer of the patented Zenon Insulator, either 40mm or 20/20mm for improved thermal performance
	Other	
	Zenon Shield	All assembly types incorporates purpose designed UV surface protective film for enhanced protection and durability
Non-Fragility	Tested for non-fragility in accordance with the current edition of The Advisory Committee for Roofsafety document ACR[M]001 offering expected periods of non-fragility up to 25 years. This is subject to all other elements of the assembly or roof construction retaining their integrity for the same period. Non-fragile ACR classification B.	
Installation Summary	<p>Zenon Arc is mounted onto the kerb and fixed using suitable fasteners and sealed using butyl tape adhered to the kerb along the fastener line.</p> <p>At rooflight panel joints, the overlaps are fixed using self-drilling screw fasteners and sealant. For full installation details and drawings, visit the Zenon Arc website page.</p> <p>The Zenon Arc end caps may be supplied insulated or uninsulated as required. For horizontal kerb applications it is recommended that the rooflight panels be fitted over the end caps at both ends, however the end caps may be fitted over the rooflight panels if required. Where the kerb line follows the slope of the roof, the lower end cap should be fitted below the rooflight lap and fixed/sealed in a similar manner to the rooflight panel laps, and the end cap at the upper end should be fitted above the rooflight panel.</p> <p>For further information, please refer to HDL guidelines and installation drawings.</p>	
<i>Performance data for each assembly configuration options over</i>		

Performance Data	U-value W/m <sup>2</sup> K	Light transmission %	Solar transmission %
Zenon Arc Pro	2.9	66	65
Zenon Arc Pro Insulator 40	2.0	66	65
Zenon Arc Pro Insulator 20/20	1.6	61	61
Zenon Arc Evolution	2.9	53	54
Zenon Arc Evolution Insulator 40	2.0	53	52
Zenon Arc Evolution Insulator 20/20	1.6	49	49

### Dimensional Tolerances

The rooflight panels may be supplied up to 2.5m long and to suit each application.

The dimensions of the sheets supplied shall be within the following nominal tolerances as declared:

- Length: Sheets up to 2.5m long, -0 to +10mm
- Width: ±5mm
- Squareness: The deviation shall be not more than 0.5mm in every 100mm of width

### Biological Resistance

Resistant to attack by micro organisms, fungi, larvae, insects and mildew. Wash with mild detergents to remove any deposits.

### Chemical Resistance

Exposure to certain acids, alkalis and solutions of water soluble gases may be detrimental to the durability and integrity of the rooflight sheets. For further information, please contact our Sales Office.

### Materials Compatibility

No chemical reaction with any other established construction materials.

### Service Life Guarantee

Hambleside Danelaw guarantee that the Zenon Arc has a service life of 25-30 years subject to specification and being handled, stored, fitted and maintained in accordance with their recommendations. For further details, contact our Sales Office.

### Non-Fragility

GRP sheets are extremely durable and their strength will be retained in the long term. However, the period of non-fragility of these sheets may vary depending on the possible effect of external factors, unless fully documented maintenance procedures are sufficiently comprehensive to ensure prevention of any factors which could render the sheet assembly fragile. Most typical maintenance regimes are not usually sufficient to achieve this; in the interests of safety it is prudent when accessing roofs incorporating these sheets to take full safety precautions.

Never walk on profiled GRP roof sheets or rooflights, irrespective of their non-fragility classification. Even GRP sheets that are designed to be non-fragile for the life of the roof could be damaged by foot traffic, and this may affect the non-fragility performance.

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