



Case Study – Distribution Centre, Wolverhampton

Zenon Arc introduces new light into distribution centre

Distribution centre in Wolverhampton refurbished with Zenon Arc Evolution barrel vault rooflights by Roofdec Ltd.

Roofdec Ltd was established in 1971 and started as a felt roofing company. Over the years they have evolved into other areas of roofing including, industrial roof and wall cladding for built up, composite and standing seam systems on both new build and refurbishment. Their projects include some of the largest and most prestigious industrial buildings in the country including distribution warehouses for some of the leading companies in the UK.

The distribution centre project in Wolverhampton's town centre involved a main contractor appointing Roofdec to refurbish elements of the roof according to need.

One of the elements of the project was to replace the existing polycarbonate rooflights that were in excess of 25 years old suffering from damage and discolouration, and limiting the availability of natural daylighting within the building.

Roofdec specified Hambleside Danelaw's Zenon rooflights that are made from thermo-set GRP material to deliver high quality naturally diffusing daylight with improved light distribution and reduced glare. The existing metal standing seam roof system used on the distribution centre best suited the Zenon Arc modular barrel vault rooflight rather than an in-plane solution.

Supplied to fit 1000mm span, the Zenon Arc rooflights were constructed from the high strength, low carbon Zenon Evolution product incorporating the patented Insulator 20/20 system to provide a U-value of 1.6W/m²K. Zenon Arc Evolution incorporating Insulator delivers high levels of safety and improved thermal performance while retaining high levels of well diffused light transmission – all with low embodied carbon.

Other works by Roofdec included the relining of the gutters, renewing end lap seals to the main roof cladding sheets together with replacement of wall cladding prior to installing a new canopy also incorporating Zenon Arc barrel vault rooflights.

Overall the works took 12 weeks to complete.

John Barnes, Managing Director of Roofdec said 'Everything went well in replacing the old rooflights and we would look to use the Zenon Arc barrel vault rooflight system on similar projects in the future'.

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Or you can visit our website; www.hambleside-danelaw.co.uk/zenon-rooflights/

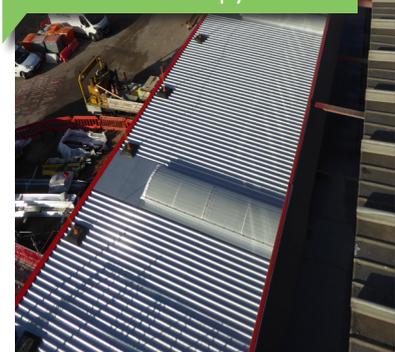
Old polycarbonate rooflights



Replaced with Zenon Arc



Refurbished canopy



Products used in this project

Zenon Arc barrel vault rooflights

Zenon Arc barrel vault GRP rooflights are available either uninsulated, or insulated with the Zenon Insulator™ system, and are characterised by longitudinal ribs for extra rigidity. They may be constructed from Zenon Pro and Zenon Evolution rooflight sheets, depending upon the performance specification, durability and non-fragility periods required, to provide two daylight opening width options of 1000mm and 1200mm.

Zenon Arc Pro rooflights are manufactured using the conventionally reinforced Zenon Pro 24 rooflight sheets, and Zenon Arc Evolution rooflights are manufactured using the high strength, low carbon Zenon Evolution LC1 outer sheet combined with a Zenon Pro liner.

Suitable for flat roofs, low pitch, curved, standing seam and secret fix roof installations, they offer diffused light transmission to reduce glare, improved thermal performance, lower embodied carbon levels and long term non-fragility to ACR Classification B.

Zenon Evolution Zenon Evolution rooflight sheets

Zenon Evolution ideal for environmentally conscious industrial and commercial buildings or where superior strength is demanded. Benefits include;

- High strength rooflight sheet with lower embodied carbon
- Available in over 1000 profiles to suit new build and refurbishment projects
- Suitable for installing in single skin and double skin assemblies
- Insulated with either polycarbonate or our patented Insulator™ core
- Compatible with both site-assembled and composite panel cladding systems
- Stronger than conventionally reinforced rooflights of the same weight
- Better profile definition to suit the surrounding metal sheets
- Increased diffusion of natural daylight
- More reliable sealing, no special sealants required
- Carries Zenon Shield, a highly durable UV protection surface film
- Exceeds non-fragility requirements
- Manufactured and CE marked in accordance with BS EN 1013

Best for strength, durability, performance and peace of mind rooflight sheets