ZENON®

Case Study – B&Q Warehouse, Bridgend

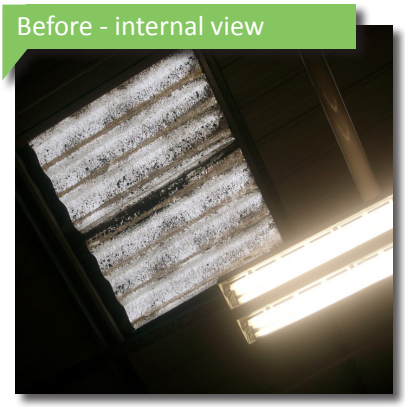
New Roof Brings B&Q Brighter Benefits

The B&Q Warehouse in Bridgend had seen better days and was badly in need of refurbishment. The interior was suffering from severe water ingress from the dilapidated, leaking roof, and employee and customer safety was at risk where pools of water were forming in wet weather conditions. The natural light into the building was hindered due to the aged rooflights being covered in moss and lichen, and having deteriorated due to years of weathering. This meant the warehouse required almost constant artificial light, significantly adding to the energy consumption of the building. The lack of insulation in the roof also added to energy running costs.

Zenon rooflights were specified for this project by B&Q due to Hambleside Danelaw's environmentally positive approach to business and who worked alongside B&Q's approved contractors, Group Tegula. The original roof, consisting of fibre cement sheets, remained in place to act as the liner for this over-roof project. The aged rooflights were removed and new Zenon Pro liner panels were installed in their place. A metal spacer system was then installed to create a cavity of 80mm depth and the roof was completed with profiled metal cladding and weather sheets. The cavity was insulated with mineral wool to further improve the U-value of the building.

The new roofing system and rooflights have transformed a once fragile roof into one that is non-fragile and has improved the thermal performance of the building envelope. The heat retention and the increased natural daylight through the rooflights have also reduced the energy running costs. Dave Murray of Group Tegula commented "this project has vastly improved the overall experience of visiting the store. The building is now warm and dry and well lit by natural light rather than artificial lighting, giving a much better environment for customers and staff".

Before - internal view



Before - external view

Overclad project underway

For more information, please contact our team on:
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Ref: Group Tegula

Hambleside Danelaw
Building Products

Products used in this project

Zenon site assembled rooflight sheets

Zenon site assembled rooflights can combine Zenon Pro and Zenon Evolution weather sheet and liner panel configurations to suit all building requirements. Manufactured to match all commonly available metal cladding profiles for both new build and refurbishment projects, the various sheet weights can be mixed and matched to meet the best performance criteria for your building design. Where insulated assemblies are required to meet Building Regulations and to improve building energy performance, our unique Zenon Insulator™ core or multi-wall polycarbonate options can be selected.

All our insulated rooflight assemblies achieve U-values below the Building Regulations Part L notional building value of 1.8W/m²K. All our assembly combinations meet, or more often exceed, the required non-fragility classification as defined in ACR[M]001:2014 (5th edition) and NARM's Technical Document NTD03 [2014]. Each sheet can be manufactured to the required fire grade. Uninsulated rooflight assembles are available for agricultural building applications where Building Regulation requirements may not be applicable or required.

Zenon Pro rooflight sheet

Zenon Pro is ideal for industrial, commercial or agricultural buildings. Benefits include;

- A full range of weight options to suit all specification requirements
- 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 multi-wall polycarbonate or our patented Insulator™ core
- Compatible with both site-assembled and composite panel cladding systems
- High levels of natural daylight
- Carries Zenon Shield, a highly durable UV protection surface film
- Meets all non-fragility requirements subject to specification
- Manufactured and CE marked in accordance with BS EN 1013