



## Case Study - Liebherr Sunderland Works Ltd

### Wall lights brighten Liebherr plant

Liebherr Sunderland Works Ltd is a company of huge importance to the city of Sunderland, both as a local employer and an international supplier and exporter. Liebherr announced plans to extend the Wearside site and refurbish the 30 year old production hall. Zenon Evolution wall lights were selected to replace the existing wall lights that had become heavily ingrained with dirt over the years, making the production hall a dark place to work.

The production hall is an HH Robertson metal profile building envelope and is situated on the south bank of the River Wear. It is a very tall building – approximately 30m high and, due to the location, strong winds can cause high levels of wind loading. It was therefore specified that the replacement wall lights must have excellent structural strength without compromising translucency. Easyseal UK, the refurbishment contractor promoted Zenon Evolution wall lights as they are exceptionally strong, despite being much thinner than conventional wall lights. The thinner, lower resin content of the wall lights reduces embodied carbon and makes them easier to install and seal within a metal profile cladding system building. At fire grade Class 0, these wall lights possess the highest level of fire retardancy to meet specific fire performance requirements.

16 vertical runs of wall lights needed replacing, along with the main 50m horizontal run which spans the length of the building. Ronnie Thirlwell, Director of Easyseal UK commented "we have dealt with Hambleside Danelaw in the past and have always received a service that is second to none. The brief itself was simple – improve the light quality in the factory. The Zenon Evolution wall lights were ideal for the project. There were some concerns in identifying the profile as it is such an old building, but Hambleside Danelaw were on hand to provide superb technical backup and attended site several times to ensure everything was going smoothly. We have had tremendous feedback from Liebherr and have been asked to quote for the installation of further wall lights on the other side of the factory".

Michael Sharman, Processes Administrator who is based at the Liebherr Sunderland site said "The new wall lights have made a huge difference to the working environment. Even on a day that's dreary, it is still bright in the factory". It is clear that the replacement wall lights have made a big impact on the Sunderland team.

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Or you can visit our website; [www.hambleside-danelaw.co.uk/zenon-rooflights/](http://www.hambleside-danelaw.co.uk/zenon-rooflights/)

Ref: Easyseal UK

Before wall light replacement



Before replacement (internal)



Complete wall light project



## 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/m<sup>2</sup>K. 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 assemblies are available for agricultural building applications where Building Regulation requirements may not be applicable or required.

### Zenon Evolution rooflight sheets

Zenon Evolution is 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**