

# Wirtgen Limited Headquarters, Newark

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always the  
best climate

Heating

Cooling

Fresh Air

Clean Air

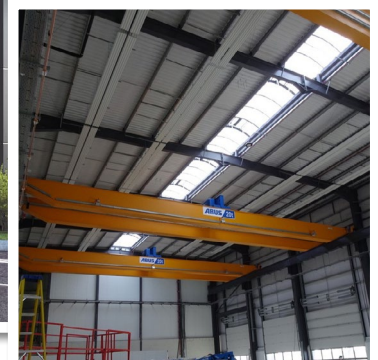
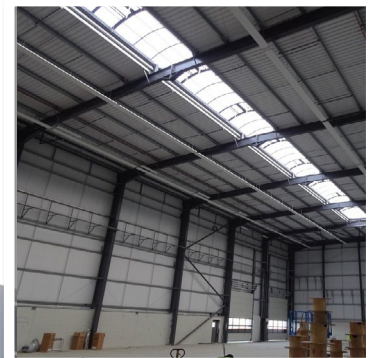


# Wirtgen Limited Headquarters, Newark: Delivering quality, practicality and style with radiant panels

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Wirtgen Limited is a UK-based, wholly-owned subsidiary of the global Wirtgen Group, which provides contractors, local authorities and construction companies with market-leading solutions for road construction and rehabilitation, mineral processing and asphalt production. Having outgrown its Lincoln premises, Wirtgen Limited has begun work on a brand new headquarters complex in Newark, including a large warehouse and a 3-storey office building.

With energy efficiency, quality performance and clean design all major objectives, Wirtgen chose partners who would the project's exacting standards and deliver outstanding results. To meet these requirements, Zehnder's radiant heating and cooling Zip panels were specified, to focus heat only where it was needed in the vast warehouse space.



## Why Zehnder?

Once the decision had been made to install radiant panels for the build, the contracted consultants turned to Zehnder, as their products are well known for their impressive design and excellent performance.

The heating system was installed by Nigel Smith Plumbing Ltd, and the team took great care to protect the warehouse's expensive flooring when handling the Zehnder radiant panels.

## Project Basics

- ▶ Wirtgen in new HQ facility in Newark
- ▶ 3-storey office space, 25,000 sq ft
- ▶ Workshop and storage warehouse, 31,600 sq ft
- ▶ Ceiling height of 12.5m in warehouse space



# Design Elements

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## Key Priorities

- ▶ Energy efficiency
- ▶ Heat distribution across large spaces
- ▶ Easy to install and maintain

## 1 Building & Installation

As both the office building and the warehouse span large areas, heating in the new premises needed to be efficient and cost-effective, whilst also contributing to the comfort and wellbeing of employees. The high ceilings in the warehouse, necessary to facilitate large cranes and other heavy duty equipment, led the project managers to choose radiant ceiling panels, to increase efficiency and ensure heat could be directed where it was most needed.

This would be challenging, as the warehouse is fitted with high bays and narrow, slim storage areas. However, radiant panels were the preferred choice for the build, as in Wirtgen's current Lincoln site, underfloor heating was being used, proving costly both in monetary and energy efficiency terms.

Due to the nature of the machines being housed and repaired in the workshop and storage area, it was essential to specify products that would be simple to install, and installation teams who would respect the surrounding space. The machines are specifically built to break up roads and other robust surfaces, so part of the investment in the project has gone towards an innovative, state of the art floor which is sturdy enough to house this equipment. Any products and structures being installed in the space would need to be handled and set up with care, to protect this special flooring.

## 2 Products

- Zehnder ZIP Single ZIP-panels 4 x 48 m (L) x 32 cm (W)
- Zehnder ZIP 2 parallel panels 4 x 40 m (L) x 70 cm (W)
- Zehnder ZIP 2 parallel panels 1 x 16 m (L) x 70 cm (W)

Zehnder ZIP radiant ceiling panels have multiple design possibilities thanks to their modular construction making them ideal for every industrial installation situation.



*"This is a huge investment for us and a very exciting project, so getting everything right in terms of the design, the look and feel of the space and the products we use throughout is vital. Having seen the Zehnder heating panels being installed, I was very impressed. Not only are they sleek, stylish, and in keeping with the clean and practical design of the building, they were also installed quickly without damaging or disrupting the surroundings."*

**Paul Holmes, Managing Director at  
Wirtgen Limited**

