

A versatile flooring system for easy adaption to ever changing technologies, equipment densities & increased cooling demands - Bergvik Iso Floor

Case Study: Bergvik Iso Floor Installation

Client: Yelo Enterprises Ltd

The Project - Overview

CFS (Critical Facilities Solutions, part of the EDP group) were appointed primary contractor to install 115m² of specialised Bergvik Iso floor system into a Power & Plant room for Yelo Enterprises Ltd. Yelo processes UK grown, farm-assured rapeseed and support all UK farmers by providing a home market for their crops.

The installation was particularly challenging as the power equipment was sited on a huge girder system, and the Iso floor had to be installed in 36 separate sections across a four-week period.

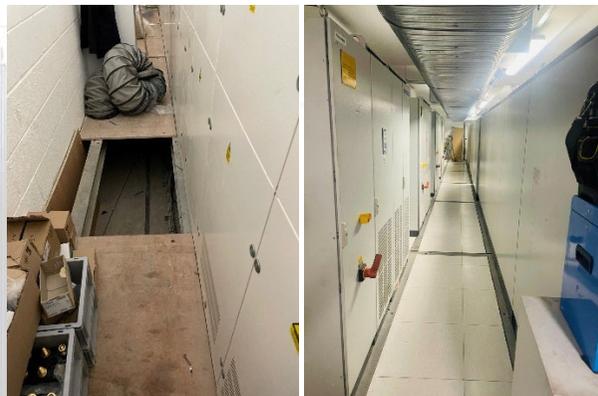
The Bergvik Iso floor system that was installed by CFS is dynamic with a unique design that allows for easy adaptation to ever-changing technologies; equipment densities; equipment footprint, and increased cooling demands.

The System

The specialised installation started in early March 2023 and coincided with a room upgrade that the client had scheduled, the Bergvik Iso floor system has up to 70% fewer pedestals compared to conventional 600 x 600 mm grid floors, this enabled CFS to work successfully

with Yelo on the complex girder system that was already in place.

Nick Marshall, Maintenance Manager for Yelo said *“Due to our extremely bespoke requirement, the Bergvik Iso floor was the only solution that would service our needs. The Iso floor ensures we have removed all our risk around fire in the critical area as the design encompassed a calcium sulphate panel instead of the traditional wood core panels”.*



Work on the Yelo project was completed by Critical Facilities Solutions qualified professionals who have significant previous experience of raised access floor installations in Data Centre facilities and supporting ancillary spaces (Plant/UPS/Mechanical rooms) and only use approved materials and operational procedures.

The underfloor sub structure can now be accessed at 36 individual areas in the Power & Plant room, and all wood-based materials have now been replaced for Health & Safety protocols.

Bergvik Features & Benefits

The benefits that Yelo have received from using the Bergvik Iso flooring system are:

No costly bridging needed due to flexible pedestal placement.

Only 2 grounding lug points per room are needed to provide a high potential to the main ground bar.

Multi-size panel offerings provide an optimized equipment layout and full access to the under-floor plenum.

Can be installed in two deployments due to self-supporting steel sub-structure. Panels can be installed at a later stage if required, also floor heights available from 300-2100 mm.

All floor components are zinc whisker free, preventing any risk of short circuit in the equipment.

“Due to our extremely bespoke requirement, the Bergvik Iso floor was the only solution that would service our needs. The Iso floor ensures we have removed all our risk around fire in the critical area as the design encompassed a calcium sulphate panel instead of the traditional wood core panels”.

Nick Marshall, Maintenance Manager for Yelo Enterprises Ltd.

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Project Gallery:

