

ACCESS FLOOR FOR 2-STORY DESIGN

HIFLEX FLOOR



THE COST & TIME SAVING SOLUTION FOR 2-STORY DATA CENTERS

The HiFlex floor 2-story design provides an opportunity to consider replacing your overhead superstructure design with a prefabricated and modular raised floor system. The HiFlex floor construction allows for floor heights up to 177" (4500 mm) and flexible pedestal placement of up to 79" (2000 mm). The HiFlex floor system is the most cost effective and modular solution on the market, providing restricted access by subcontractors to the white space and minimize data center footprint.

The HiFlex floor is designed to allow for higher floor heights without affecting the stability of the floor, and provide for full use of the under-floor plenum. The plenum is used for cable management and placement of heavy equipment such as PDU's, CRAH units, transformers, etc. The system allows for future reconfiguration of your equipment.

The HiFlex floor design provides a lower total cost solution, minimizing construction time and allowing for quicker commissioning.



DESIGN AND INSTALLATION SEQUENCING

Design

- Start with the rack row placement layout in the white space. The rack row placement will dictate the Lx & Ly placement of the floor pedestals on the primary & secondary beams.
- Plan the placement of all under-floor “basement” equipment; CRAH's, PDU's, DP Panels, Fire suppressant, Batteries, etc.
- Send CAD/Revit layouts to Bergvik for a HiFlex floor layout, adapting floor to all equipment layout.
- After you receive the floor layout drawings, do the cable management layout, utilizing floor pedestals.

Installation

- Installation of chiller piping around perimeter walls.
- Marking of floor pedestal locations on concrete slab.
- Installation of all support equipment like CRAH's, PDU's, DP Panels, Fire suppressant, Batteries, etc.
- Installation of HiFlex Floor pedestals and substructure.
- Installation of floor panels including Airflow panels and Mounting Clamps for cable ladders to complete the floor system.
- Installation of Starline, cable ladders and cabling.
- Misc installations type Iso Flex-Grid ceiling.



Bergvik's HiFlex Floor benefits

- For floor heights from 79-177 inches.
- All heavy electrical equipment including transformers up to 20,000 lbs (9 tonnes) are supported directly by the rigid and self-supporting substructure. No costly equipment stands are needed.
- Unique system flexibility means that future equipment expansion are built into the floor design.
- Up to 79" (2000 mm) spacing between pedestals.
- No obstructing pedestals under cabinets or in cable routes due to flexible pedestal placement.
- All under floor cable management installations can be supported directly by the HiFlex Floor substructure.

CUSTOM MADE SOLUTIONS WITH THE HIGHEST QUALITY

Coordinating with Bergvik is worry free. We custom design the floor for every project if needed in our CAD software to provide customers with the quality they expect and deserve. This means that your equipment layout can be decided at the design stage and the floor is designed to adapt around your optimized project design. Additionally, a standard 5-year warranty on the floor is priceless.

Bergvik was founded in 1970. Through all the years, we have exported our floors to more than 100 countries around the world.

Today we design and deliver fully modular and technical floors like Iso Floor, HiFlex Floor, Tech Floor and our proven secure Seismic Bracing Frames. As well as the structural ceiling system - Iso Flex-Grid.

Our products

ISO FLOOR



Raised floor for data centers and power distribution rooms with unique flexibility.

HIFLEX FLOOR



High-built power distribution floor as an alternative to concrete beams.

SEISMIC BRACING



Bergvik's seismically secure raised floor that protects critical electrical equipment.

ISO FLEX-GRID



A load-bearing ceiling system that is both a dropped ceiling and a support grid in one cost effective solution.

TECH FLOOR



An economical standard grid floor system for installation in offices and communication centers.

