Iso Floor for Data Centers

Flexible design provides unprecedented life span
The complete solution

Bergvik’s Iso Floor is the strongest and most flexible raised access floor on the market. Iso Floor is a unique floor system that can be adjusted to the conditions you have within your project.

Bergvik work in conjunction with the client’s professional teams to provide an optimal designed floor, supply all materials including all accessories, install it in accordance with the approved design and also supply all after market requirements to the client. This means that there is one less item you need to worry about during construction of a new facility.

Iso Floor benefits:

- Full stability from 12 - 84 inches FFH using standard components.
- Can be installed in two deployments due to the rigid and self-supporting steel sub-structure. Panels can be installed at a later stage. No other raised floors offer this value added feature.
- Standard panel size is 24 x 24 inches, but to achieve an optimized equipment layout and full access to under the under-floor plenum, Iso Floor also offer panel sizes from 12 - 52 inches.
- All heavy equipment is supported directly by the modular and self-supporting sub-structure. No costly and bulky equipment stands are needed for e.g. CRAH and PDU units.
- Tested and approved in accordance with ASTME E-84/UL 723.
- Up to 70% fewer pedestals than with conventional 24 x 24 inch grid floors. This means less air flow obstruction and more space for cable management, etc.
Heavy equipment loads? No problem!

The sub-structure and floor panels are adapted to the equipment layout at the design stage if needed. All panels are free to be lifted, which gives full access to the under-floor plenum.

Iso Floor’s flexible design allows for uniform distributed load over 500 Lbs/SF. The distance between primary beam sections and pedestals are the factors that control the design load.

All heavy equipment including PDU and CRAH Units are supported directly by the rigid and self-supporting sub-structure. No costly and bulky equipment stands are needed.

Whenever future conditions are changing in your data center; heavier equipment or different Server Rack footprint, it’s quite easy and very cost effective to change or reinforce the Iso Floor system by simply adding pedestals and beam sections, or changing panel sizes. The sub-structure stays intact – priceless!

“...The Iso Floor system provides many added values for us, including maximum flexibility, stability and strength. By using the Bergvik floor we don’t need separate equipment stands for heavy CRAC’s, UPS’s etc.

Head of Operations Gys Geyser
Teraco Data Environment, South Africa

The distance between primary beam sections (Lx) and pedestals (Ly) are the factors that control the design load.
Quick and easy installation

Every project is designed and communicated with the client to simplify the installation stage.

All deliveries include all pedestals needed for your floor height, and 80x40 mm beam sections can be pre-cut to the correct length based on approved project drawings if needed. This provides a quick and easy installation.

Installation can be performed in 2 (two) stages, first stage without panels due to the rigid Iso Floor design. This provides opportunities for other sub contractors to do their installations before floor panels are installed. Other sub contractors can utilize the Iso Floor sub-structure to support cable management, fire suppressant, etc as well. These installations are attached to the floor sub-structure using Bergvik’s quick mounting cable ladder Holder Clamp (see separate accessory brochure).
High quality floor panel with durable finish

The core of Bergvik's standard floor panels consist of a 38 mm (1 1/2") high density particle board. A moisture resistant panel core, classified as V313, is standard. To maximize the access to the under-floor plenum around equipment, we offer floor panels in customized sizes, from 12 x 24 inches and up to 52 x 24 inches. As standard we offer the M335 Granite laminate finish, with H818 Alder and A0040 Oak laminate finishes as alternatives.

Bergvik panels have a unique direct laminate finish process, which means that it's laminated directly to the panel core, preventing any de-lamination. Other manufacturers glue their laminate, which could work loose. Bergvik laminate panels are antistatic, extremely durable and easy to clean. The Bergvik panels are also fully recyclable and environmentally friendly.

Bergvik laminate floor panel benefits:
- Custom made panel sizes for maximum optimization.
- High mechanical strength.
- Easy to handle due to its light weight.
- Easy to clean and very resistant to harsh chemicals like battery acid.
- Fulfills flame spread requirements in accordance with ASTM-E84.
- Direct lamination process provides long life span to the panels.
- Environmentally friendly and fully recyclable.
I know of no other flooring system that would allow me to reconfigure my floor to suit individual (future and unforeseen) client requests without also rebuilding the floor sub-structure at extreme cost. With Bergvik, I just order custom sized panels and I am done... No sub-structure work, no contractors, no cost beyond panels.

CTO Tom Panazzo,
Data Realty, USA

SECTION 09 69 00 (10270) – RAISED ACCESS FLOORING

A complete Iso Floor specification in PDF format is available from our marketing page at our website: www.bergvik.com/marketing-material-us

To consider for your 09 69 00 specification
· if raised access floor should be dimensioned for a higher UDL than 300 Lbs/SF.
· if the raised access floor should be delivered with step-less Holder Clamps for installation of cable ladder brackets, fire suppressant pipes, etc.
· that panel covering shall be Bergvik antistatic direct laminate M335 Granite.
· that floor panels shall be delivered in 24 x 24 standard size, or the appropriate sizes, adapted to the equipment aisles widths, or cold aisle widths, so that no floor panels gets locked-down.
· that complete Auto-Cad drawings or optional Revit model shall be delivered with the project.
· that a load calculation specific for the project shall be included before the delivery.
Iso Floor Compact is an alternative to Iso Floor when you have a limited ceiling height.

The strong and rigid sub-structure design use only secondary beam sections on a c/c distance of 24 inches supported by additional pedestals to meet the specified load rating.

In general, Iso Floor Compact has the same specification as the traditional Iso Floor, with an exception of the finished floor height, at 6-8 inches.

Up to 25% more equipment on the same floor space

Through Iso Floor’s flexibility and ability to use custom sized panels, Bergvik can provide the Iso Floor with your dream layout without adapting to a 24 x 24 inch floor grid.

By using Iso Floor, the hot and cold aisles can be adjustable to get up to 25% more Server Racks on the same floor space, in comparison to traditional 24 x 24 inch grid floors.

Air flow panels and cable seal grommets in customized sizes can also be provided.
Custom made solutions with high quality

Bergvik can provide custom made floors for special projects, as seen on the picture above. A standard 5 year warranty is provided. Priceless!

Bergvik was founded in 1970. Today our products have been exported to more than 120 countries around the world.

Floor panels, steps, border fascias, and ramps at Harford County Emergency Communications Center are made from the matching A0040 Oak finish.