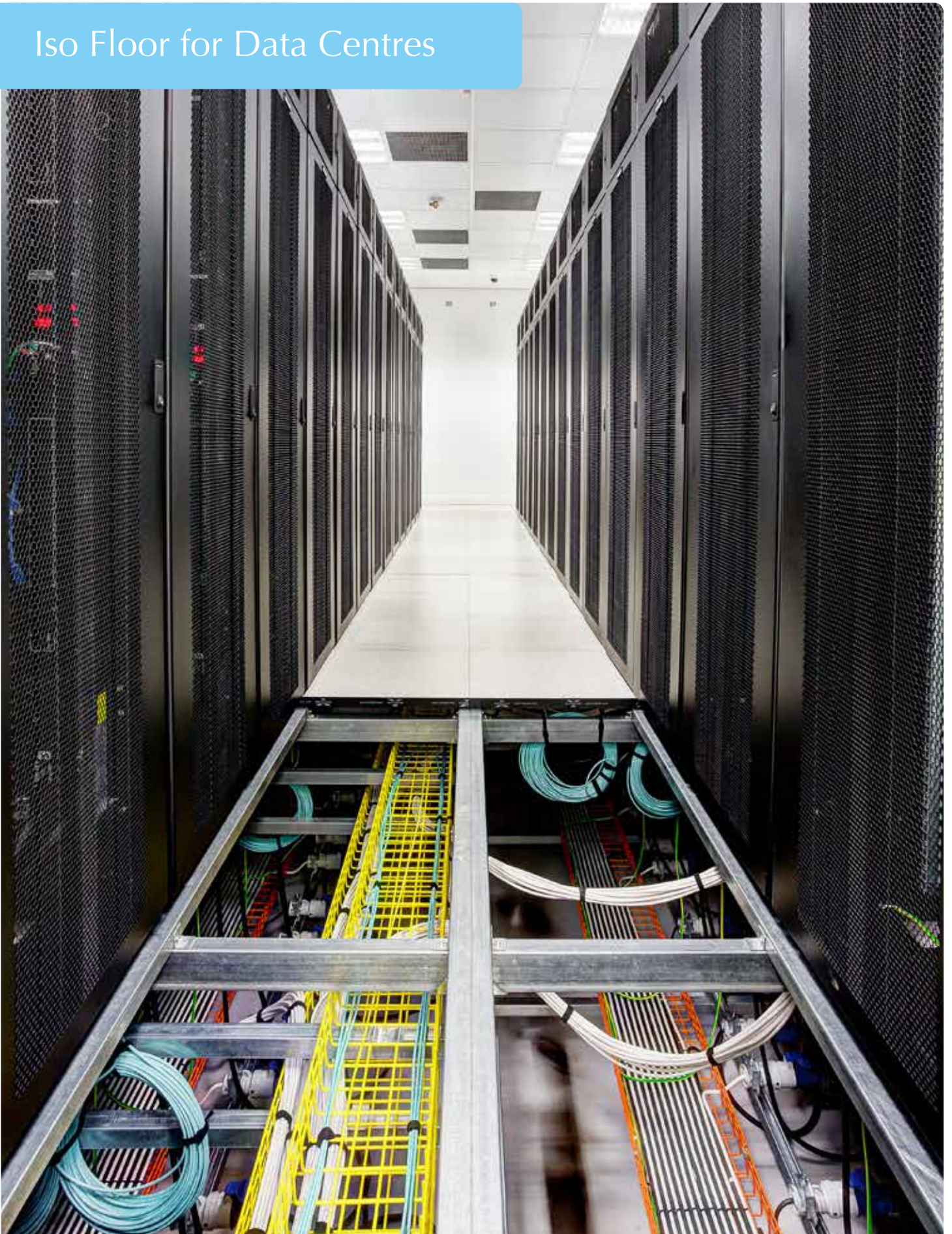


# Iso Floor for Data Centres



**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:

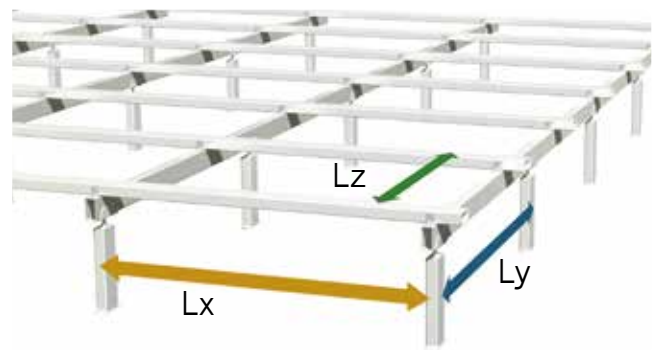
- Full stability from 300 – 2100mm FFH.
- Can be installed in two deployments due to the rigid and self-supporting steel sub-structure. Panels can be installed at a later stage. No other raised floors offer this value added feature.
- Standard panel size is 600x600 mm, but to achieve an optimized equipment layout and full access to the under-floor plenum, Iso Floor also offer panel sizes from 315-1220 mm.
- All heavy equipment is supported directly by the modular and self-supporting sub-structure. No costly and bulky equipment stands are needed.
- Tested and approved in accordance with EN 12825.
- Up to 70% fewer pedestals than with conventional 600x600 mm grid floors. This means less obstruction and more space for cable management, etc.



Iso Floor installation at MTN.

” 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.

## 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 Floors' flexible design allows for uniform distributed load up to 50 kN/m<sup>2</sup>. 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 centre; 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!



## 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 high density particle board. A more moisture resistant panel core, classified V313, can also be ordered. To maximize the access to the under-floor plenum around equipment, we offer floor panels in customized sizes, from 315 x 600 mm and up to 1220 x 600 mm. 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 delamination. 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 it's light weight.
- Easy to clean and very resistant to harsh chemicals and 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 10270 (09 69 00) – RAISED ACCESS FLOORING

For a complete Iso Floor specification in PDF format, please download this document from our website at:

[http://www.bergvik.com/ulfiles/images\\_42/SPECIFICATION\\_ISO\\_FLOOR.pdf](http://www.bergvik.com/ulfiles/images_42/SPECIFICATION_ISO_FLOOR.pdf)

### To consider for specification

- if raised access floor should be dimensioned for a higher UDL than 10 kN/m<sup>2</sup>.
- if the raised access floor should be delivered with step-less Holder Clamps for installation of cable ladder brackets, pipes etc.
- that panel covering shall be Bergvik antistatic direct laminate.
- that floor panels shall be delivered in the appropriate sizes, adapted to the 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 in the delivery.



” The Bergvik Iso Floor system safeguards our equipment and provides great flexibility.

*Sr. Project Manager Fred Weber  
VODACOM*



## 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 600x600 mm 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 600x600 mm grid floors.



Air flow panels and cable seal grommets in customized sizes can also be provided.



## Iso Floor Compact

Iso Floor Compact is an alternative to Iso Floor when you have a limited ceiling height.

The strong sub-structure design use only secondary beam sections on a c/c distance of 600 mm 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 150-400 mm.



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

## 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 warrenty is provided. Priceless!

Bergvik was founded in 1970. Today our products have been exported to more than 100 countries around the world.

Iso Floor is presented to you by:



EDP Europe Limited  
Unit 4 Europa Park  
Croft Way, Witham  
Essex CM8 2FN, UK  
Tel: +44 (0)1376 510337  
E-mail: sales@edpeurope.com  
Web: www.edpeurope.com

### Iso Floor



Raised floor for data centres and power distribution rooms with unique flexibility

### HiFlex Floor



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

### Seismic Floor



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

### Tech Floor



An economical standard grid floor system for installation in offices, communication centres etc.

### Iso Flex-Grid



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

Bergvik ENG3

Bergvik Sweden AB  
Box 46 Vannsäter  
820 23 Bergvik · Sweden  
+46 270 728 00

Bergvik North America Inc.  
2040 Shipley Drive, Bldg C-3  
Salisbury, MD 21801. USA  
+1 410 548 1449

Bergvik Southern Africa Pty Ltd.  
Unit 6, Capital Hill 65  
Cnr K101 & Le Roux Ave  
Midrand, 1685 Johannesburg  
South Africa  
+27 21 851 1966

Bergvik Australia Pty Ltd.  
Level 22 MLC Centre  
19 Martin Place  
Sydney, NSW 2000  
Australia  
+61 2 8007 4080

Please visit our website for further information: [www.bergvik.com](http://www.bergvik.com)

**BERGVIK**  
floors on a higher level