



Uniflair Access Floor for data centers

The foundation for your mission critical infrastructure

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One solution, many benefits

Server rooms

Supports high density IT racks. Adaptable accessories for air distribution and cable management. Safe and easy access for maintenance. Options for seismic resistance.

UPS and electrical rooms

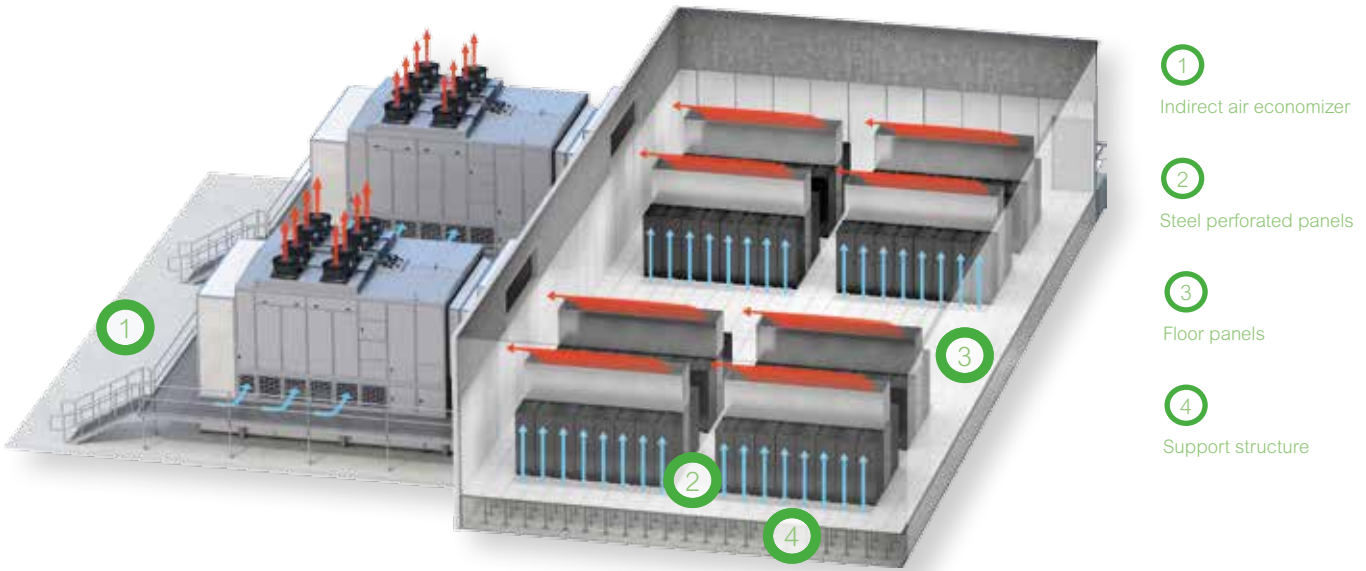
Configurable open frames for large electrical cables.
Cable management accessories.

Service corridors

Robust design to support heavy equipment handling. Flexible pedestal placement eliminates interference with piping and wiring.

Offices and control rooms

Designed for the demanding work environment. Supports comfort cooling and network cabling. Countless floor finish options.



The Access Floor Solution



Panels

The basic panel, 600 x 600mm, is made from a wooden chipboard core (720 kg/m³) covered on the lower face with an aluminum sheet (0.05 mm thick) and on the upper face with a high-pressure plastic laminate finishing.

The solution can be customized using different materials to meet specific needs, such as: calcium sulphate core (1,500 kg/m³), galvanized steel backing (0.5 mm thick), vinyl/rubber finishing.



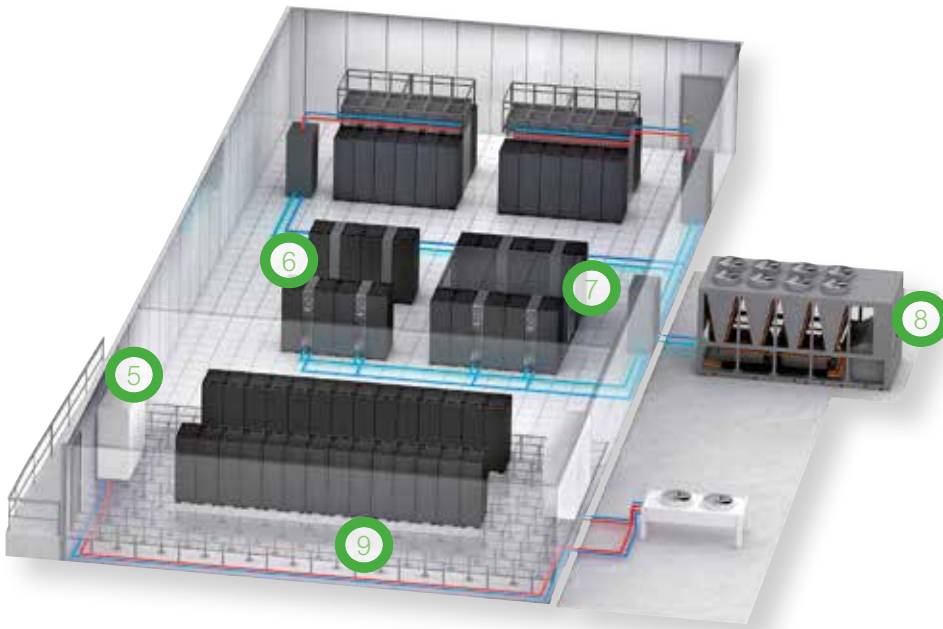
Support structure

The support heads and the steel frames are designed to be mechanically fastened together along the perimeter by hammer-head screws. This allows for the positioning of supports at distances greater than 600mm and provides more freedom in installing. Special air sealing gaskets on the stringers provide enhanced adhesion of the panels for the best air leakage performance compared to other solutions.



Solutions for seismic regions

To ensure seismic protection, the support structure can be further reinforced by means of hammer-shaped bolts and additional bracing. Shock absorbing plinths can be installed to support racks. Uptime Institute research recommends seismic protection in all seismic prone regions.



- 5 Room cooling
- 6 Close coupled cooling
- 7 Air containment
- 8 Chillers
- 9 Linear grills

Accessories and tools



Air distribution

Deliver cooling when and where needed by leveraging the wide range of available grilles and perforated panels. Adjustable dampers and Active Floor fan tiles further enhance air distribution capabilities. As cooling needs change, it is quick and simple to move or swap out devices to adapt to new requirements.



Cabling distribution system

The access floor structure can be used to support the data center electrical wiring. The cabling distribution support system can be installed after the floor is mounted. With this solution there is no need for a separate system to support wiring harnesses. Depending on the columns height, multiple layers of cable trays can be mounted at different heights.



Configuration Tools

With Schneider Electric's industry leading design tools configuring a raised floor solution has never been easier. The access floor is delivered in kits, supported by a detailed installation manual and video tutorial.

Why use Uniflair Access Floor in data centers?

When building a house you need a solid foundation, the same is true for your data center. Uniflair Access Floor is the flexible and reliable choice.

Benefits

Adaptability to all cooling solutions

The underfloor space accommodates a range of cooling solutions, from direct air distribution to chilled water piping.

High mechanical performances

The special underfloor structure, combined with the choice of panel, allows for high performance systems that meet the strictest mechanical specifications.

Seismic design

Provides seismic protection for your data center. Meets local construction requirements.

Air distribution optimization

Integrate with active floor tiles or floor pressurization system to deliver cooling where and when you need it.

Evolve over time

Provides the space needed to adapt your infrastructure to the data center as it grows.

Manage risk

Keeps piping and mechanical systems separate from racks and cabling to reduce risk during service and repair.

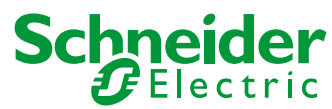
Flexible installation

Adapts to site-specific needs. Freedom from the rigid 600 x 600mm standard matrix.

Minimize maintenance costs

Easy access to infrastructure for service and repair work reduces cost. Technicians can safely enter the underfloor space without the use of ladders.

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