



RAISED FLOOR OR SLAB

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## SO, building a new data center and raised floor isn't your thing?

Several likely reasons are:

- Unnecessary, expensive, and problematic;
- Only 5kW cabinets are effectively cooled with airflow from under a raised floor;
- Only the bottom 1/3-1/2 of a cabinet can be cooled effectively using a raised floor;
- Ramps and steps take up too much floor space.

More important, you know that running electrical services and trying to reliably distribute air in the same space under a **single** level raised floor is doomed to failure.

## What's the alternative? Flooded room designs? They have drawbacks too...

Did you know:

- The cost to install structured cabling overhead is 25-30% more expensive than underfloor;
- Overhead busway can be 25% more expensive than power cables;
- There has to be a containment system used to separate cold air from hot air, there's all different types and can range from \$500 to \$1,500 per cabinet;
- Overhead piping is not a best practice and doesn't conform to NFPA-75 standards;
- A typical flooded room, i.e., a room having 9 kW cabinets and cold aisle containment, 32,6% of the server fans have to work harder to draw air into the servers;
- To decrease (not eliminate) blow-by air at the initial cabinets the width of the cold aisles must be widened from the normal 4'-0" to slow down high velocity air entering the cold aisle;
- When using containment, the fire protection system must be re-configured when aisle widths change and cabinets are repositioned;
- The building's roof structure has to be reinforced to support the added weight of cabling and busway suspended from it;
- It takes longer and costs more to design and engineer a flooded room project.

Overall, a flooded room design costs more to build, it's more complicated and costly to reconfigure, and you use about 30% more useable floor space.

## Most people agree that neither option is ideal but what else is there?

The Interstitial electro-mechanical distribution systems overcomes the shortfalls of both these design methods. Let us show you a 3rd, way to build a data center that's more functional, sustainable cost effective, easy to reconfigure and operate. We can also use higher capacity cabinets with more cabinets in the same amount of space.

Do you want to know more about the Interstitial electro-mechanical distribution System?

Give us a call and learn how to generate more income from your next Data Center.



The Foundation of Your Data Center



888.763.8421  
[interstitial-systems.com](http://interstitial-systems.com)  
[info@Interstitial-systems.com](mailto:info@Interstitial-systems.com)