DIS Isolated Floors
Seismic Protection for Essential Equipment Housed in Conventional Structures

Why Use An Isolated Floor?
Risk management for computer servers and data centers is an integral part of modern business. The productivity of an entire company may hinge on reliable and continuous equipment operation.

Along with backup power and mirrored data storage, seismic isolation is a critical element in risk management.

DIS Isolated Floor systems provide continuous, single-level flooring with seamless integration of conventional, raised-access floors.

Conventional earthquake protection relies on structural strengthening techniques, which actually increase seismic forces and accelerations. DIS’ Isolated Floors reduce seismic forces. Systems and equipment remain undamaged, operational and on line both during and after a seismic event.

Seismic isolation has been utilized to achieve Uptime Institute’s Tier 4 rating in seismic zones.

Configuration
DIS’ patented Isolated Floor is comprised of Multi-Directional Springs and high-load capacity rolling supports in standard 4ft x 6ft modules which accommodate standard 2ft x 2ft access floor tiles.

Modules are connected with either 2ft, 4ft or 6ft stringers and may be connected on all four sides, allowing for custom configurations.

Under floor utilities remain accessible via access floor tiles and may be organized through incorporated cable trays.

Performance
During a seismic event the Isolated Floor decouples the system from the floor slab. The floor moves beneath the system, eliminating damage to equipment.

Standard DIS Isolated Floors are designed for 100psf to 500psf floor loading in moderate to high seismic regions. Engineered solutions are available to suit any application.

Finished Floor Slab Requirements
- Dimensions: Plan size 2ft larger than IF to allow for movement
- Flatness Finish: FF 50
- Levelness Finish: F\(_L\) 30
- Designed to Support: 3,000 lb. point loads for 100psf areas to 15,000 lb. point loads for 500psf areas