

DIS Isolated Floors

Seismic Protection for Essential Equipment Housed in Conventional Structures

IDEAL FOR:

- Emergency Ops. Centers
- Data Centers
- Large Floor Areas
- Raised Floor Configurations

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.



16,000 sq. ft. isolated floor system at UC Berkeley.

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.



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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.

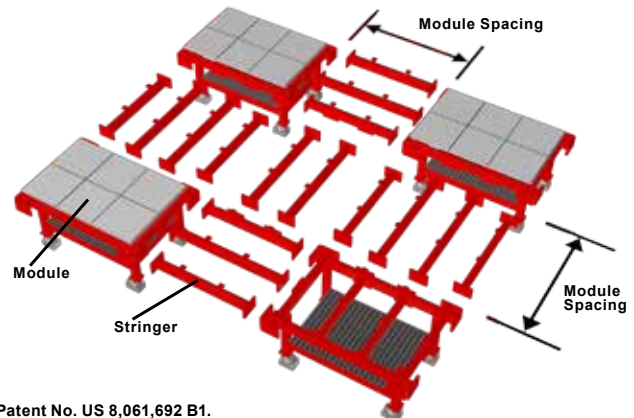


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Performance

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.



Patent No. US 8,061,692 B1.

Isolated Floor Modules

Part No.	Dimensions L x W	Height Range	Module Spacing	Capacity (psf)
IF-100	48" x 72"	12" - 48"	2', 4', 6'	100
IF-200	48" x 72"	18" - 48"	2', 4', 6'	200
IF-300	48" x 72"	24" - 48"	2', 4', 6'	300
IF-400	48" x 72"	24" - 48"	2', 4', 6'	400
IF-500	48" x 72"	24" - 48"	2', 4', 6'	500

Please contact DIS for floor layout details.



Finished Floor Slab Requirements

- ▶ Dimensions: Plan size 2ft larger than IF to allow for movement
- ▶ Flatness Finish: F_F 50
- ▶ Levelness Finish: F_L 30
- ▶ Designed to Support:
 - 3,000 lb. point loads for 100psf areas
 - 15,000 lb. point loads for 500psf areas