

DATA CENTER SEISMIC CONTROL SUSPENDED CONCRETE SLAB

Suspended concrete slab designed to minimize effects of vibrations and earthquakes in IT devices, installed along all the layout, only for New Development Data Centers.



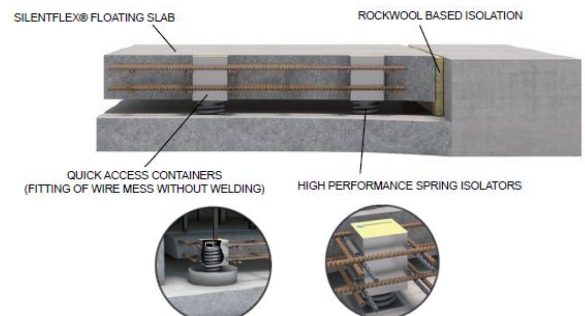
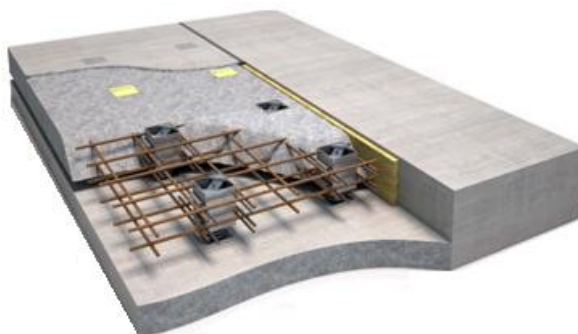
Patented Solution designed for protect all the Data Center against external vibrations and bigger earthquakes:

- ▷ **Seismic Hazard (until Richter 7)**
- ▷ Civil Works or Data Center growth
- ▷ Nearby Emergency Generators
- ▷ InRow and CRAC units
- ▷ Railways or Heavy Traffic

- Totally installed on site by our trained team upon request
- More than 500 installations worldwide

PROPERTIES

- ▷ Innovative design of suspended Concrete Slab for both vertical and horizontal energy absorption
- ▷ Designed for protect the entire room including racks, switchboards, UPS, cooling units and installations
- ▷ Double vertical suspensions, with heavy duty spring elements supplemented with 100% stainless steel energy absorbers
- ▷ Triple vibration isolation:
 - Compression Damping at a very low frequency: 4.5 Hz at nominal load
 - Tension Damping at a very low frequency: 25 Hz at nominal load
 - Incorporation of safety dampers for overload up to 10 times the nominal load
- ▷ Lateral displacement energy absorbers designed to 7 Richter as standard, stronger design upon request
- ▷ Suspensions designed totally with metallic pieces according Data Centers FIRE protection standards
- ▷ Very low Natural Frequency 2.5-4.0 Hz as standard, lower frequencies upon request
- ▷ Notable increment of mass to reduce acceleration effects in the case of Earthquake
- ▷ 99% vibration absorption during a wide range of loads from 50 Hz
- ▷ Access and total level of the slab possible once installed and in the future
- ▷ Noncorrosive metallic containers



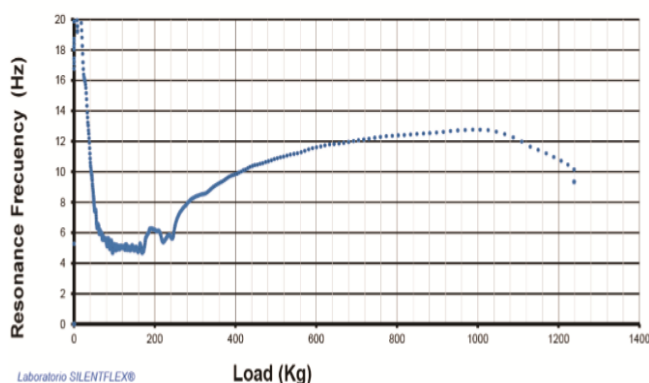
CUSTOM ADJUSTEMENT

- ▷ Different sizes and thickness depending available space and weight.



HIGH PERFORMANCE

- ▷ Very low resonance frequency during a wide range of loads supported.



DIMENSIONS

SPECIFIC TECHNICAL DATA, SAMPLE 44 m²*

| | |
|---------------------------------------|-----------|
| Slab surface (m ²) | 44.00 |
| Weight equipment and / or people (kg) | 30,000.00 |
| Weight of slab (kg) | 13,728.00 |
| Total suspended weight (Kg) | 43,728.00 |
| No. of slab dampers | 60.00 |
| Stiffness Coefficient slab (KN/m) | 29,598.00 |
| Rigidity Coefficient of slab (Kg/mm) | 2,959.80 |
| Resonance Frequency Slab (r.p.m) | 248.44 |
| Resonance Frequency Slab (Hz) | 4.14 |
| Insulation rating for 25 Hz | 0.97 |
| Insulation rating for 50 Hz | >99% |
| % Insulation rating for 100 Hz | >99% |
| Slab thickness (mm) | 130.00 |

* customized manufacture for every project

CONTACT

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