Ideal Brain

Isolation System simply arranging on the floor

RAE Isolator for Server Rack

μ-Solator is preserving national treasure from earthquake damage.

μ-Solator™

ミューソレーター

It's Only 5mm.

GOOD DESIGN AWARD 2016
GOLD AWARD

PATENTED

Features of μ-Solator

The Thinnest in the World.

1. 5mm thick means no construction needed, reconfiguring possible.
2. μ-Solator™ design includes "Fail-Safe" system to decrease the risk of falling over of loading objects.
3. With the optimal friction factor of 10%, μ-Solator™ does not work unnecessarily in a daily life.

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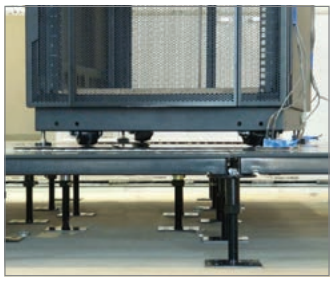
The most simple Isolation Device

μ-Solator™ is a simple isolation device comprised of 2 metal sheets placed on top of each other and can apply isolation only to a limited area.

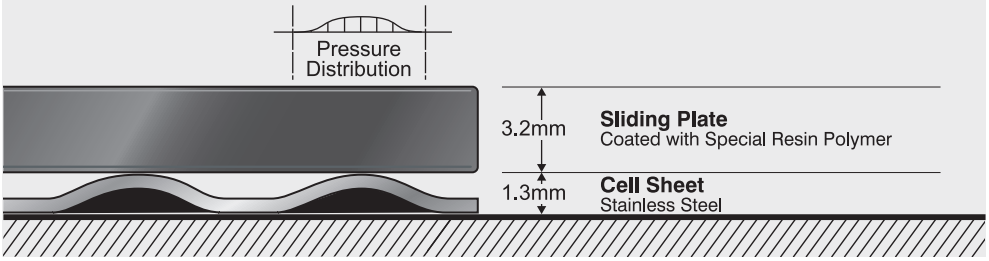
μ-Solator™ can provide seismic isolation only when seismic intensity is lower 5 or above and does not work unnecessarily in a normal situation, and consequently μ-Solator™ can meet conflicting requirements.

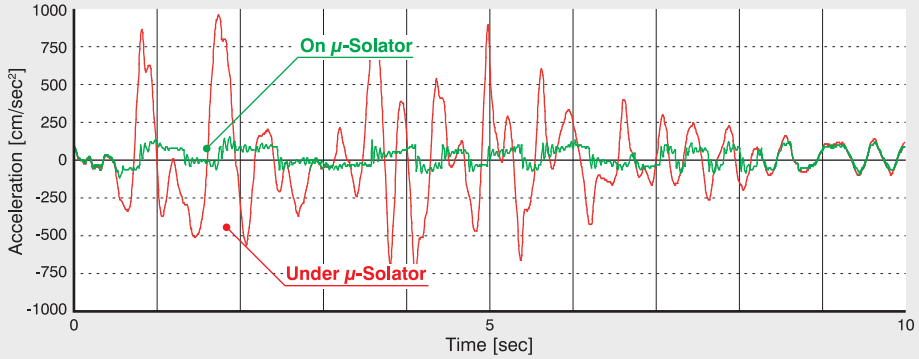


Optimal friction factor (10%) for isolation.

Shaking Table Experiment

Combination of a plane surface and a curved surface creates a friction factor of 10%.





1.2 times level of the 1995 Southern Hyogo Prefecture Earthquake

μ-Solator™ solves issues of seismic resistance and the existing seismic isolation respectively.

Anchored type (seismic strengthening) firmly keeps the object and, as a result, the shock is applied to the object. Conventional isolator is expensive and scarifies the ceiling height. μ-Solator™ solves this subject.

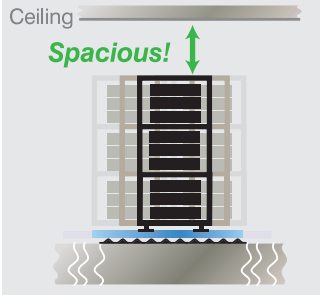
Seismic Strengthening

1. Need permission from building owner
2. Need restoration work when moving out
3. Anchor strength is uncertain
4. Generating noise and dust during construction.

Conventional Isolator

1. Narrowing ceiling space due to device height
2. Require special skill for relocation
3. Require special skill for installation

μ-Solator™



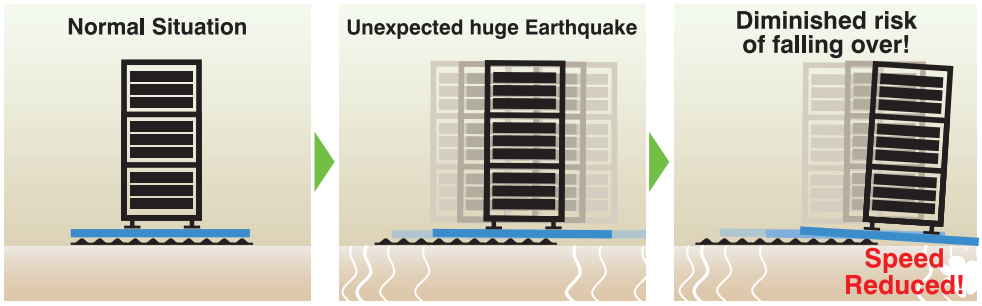
1. Easy installment with simple design
2. Maintaining space with thin design
3. Easy relocation

μ-Solator design icludes a “Fail-Safe” factor.

Conventional Isolator

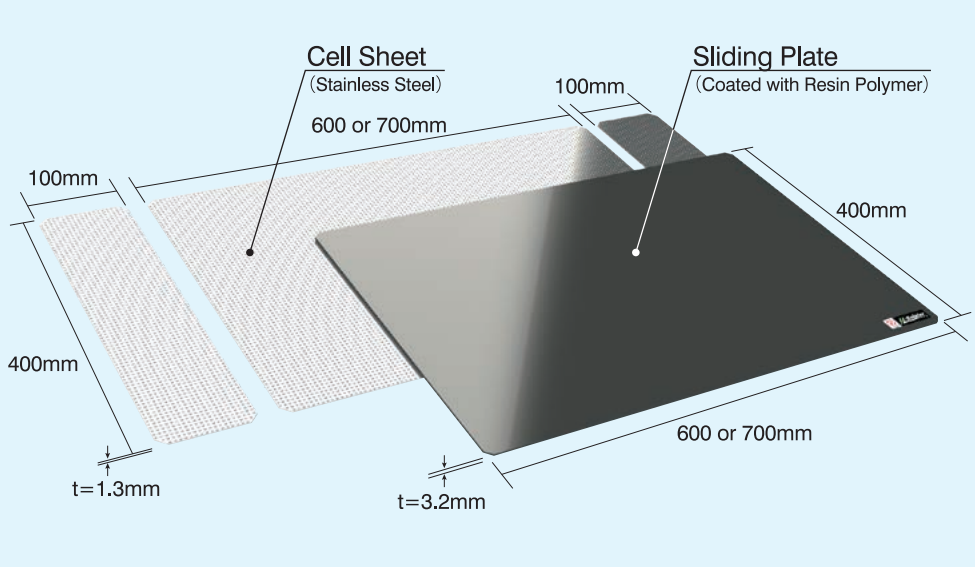
In a conventional Isolator, shake exceeding the movable range results in increasing the risk of falling over and dropping.

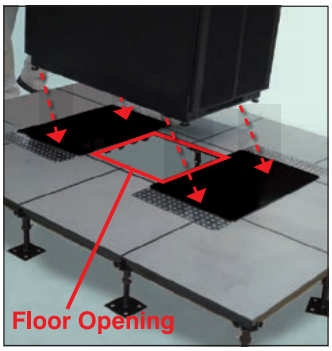
μ-Solator



Even when μ-Solator™ exceeds the movable range, a small gap in a vertical direction of 1.3mm can minimize the risk of falling over although the acceleration speed slightly increases.

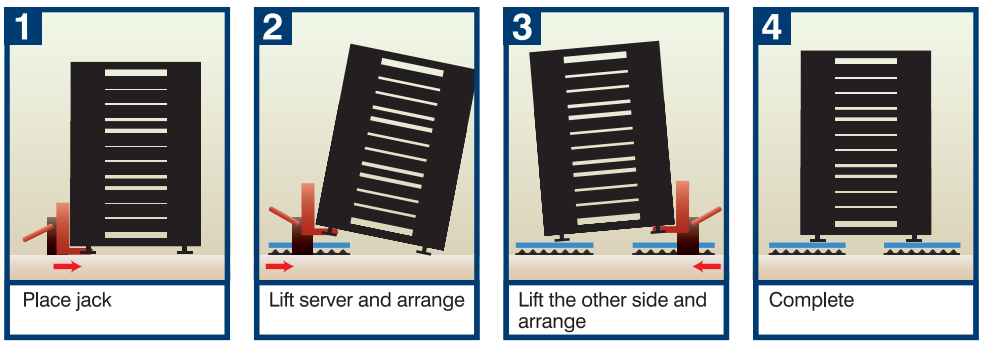
Product Set





Underfloor wiring can be carried out through opening

Installation Process



μ-Solator™ is only 5mm thick and accordingly easily installed.

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RAE
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Specifications

Isolation Mechanism	Sliding Isolation
Opening Size for Wires	250mm × 250mm ~ 400mm × 400mm
Isolation Capacity	In any earthquake, seismic intensity can be reduced to 100gal or less (excluding movement in a vertical direction and pulse response).
Displacement Limits	±250mm (Recommended)
Load Limits	100 tons per m^2 (Concentrated limit is 1 ton per leg)
Maintenance	Maintenance Free (Any search or stain in the border panels should be replaced) *extra cost
Warranty	1 year after delivery date
Note	*No warranty is provided for objects being placed on μ-Solator™. *No generations of zinc whiskers. *Specifications are subject to change without notice.
Patents	The μ-Solator™ products are protected by patents in the United States and elsewhere. US Patent Nos. 9,212,480 | 9,175,490

Standard Setting

Unit Name	Code	Material	Size	Thick (mm)	Quantity
RAE-600B	A3 - 6040	Resin coated Steel	600 × 400	3.2	2
	E - 6040	Stainless Steel	600 × 400	1.3	2
	E - 4010	Stainless Steel	100 × 400	1.3	4
RAE-700B	A3 - 7040	Resin coated Steel	700 × 400	3.2	2
	E - 7040	Stainless Steel	700 × 400	1.3	2
	E - 4010	Stainless Steel	100 × 400	1.3	4
RAE-600	A3 - 6040	Resin coated Steel	600 × 400	3.2	2
	E - 6040	Stainless Steel	600 × 400	1.3	2
RAE-700	A3 - 7040	Resin coated Steel	700 × 400	3.2	2
	E - 7040	Stainless Steel	700 × 400	1.3	2

⚠ Notice

1. μ-Solator™ is the system that reduces horizontal vibrations causing a falling over by an earthquake. μ-Solator™ is not applicable to vibrations in a vertical direction by an earthquake, mechanical vibrations, and vibrations without causing a falling over. Those vibrations are out of scope of the performance of μ-Solator™.
2. μ-Solator™ is the system reducing the risk of falling over by an earthquake and therefore no damage is assured.
3. μ-Solator™ shall be surrounded by an operational space for not interfering with other objects during an earthquake and the operational space shall be empty. The performance of μ-Solator™ may deteriorate and may lose its function if μ-Solator™ moves beyond the operational space during an earthquake.
4. After a large earthquake has occurred, the situation of the object shall be checked. μ-Solator™ may have a residual displacement and, if the displacement is observed, please contact below.
5. Do not push the loaded object carelessly. The object may move suddenly.
6. Due to a defect of the base portion (free access floor, slab etc.) and obstacles therefrom, there may be cases where μ-Solator™ does not work.
7. When μ-Solator™ is installed on 6th floor or above, verification of the installation shall be carried out.
8. When μ-Solator™ is removed and reused, cleaning treatment is recommended (extra charge).
9. Please feel free to contact us if you have any questions.

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