



Difference between structures

Common building in non-earthquake-prone region

Columns & beams are designed to support weight of the building.



Upsize Column & beam and strengthen wall



Earthquake resistant structure



The higher the floor is, the larger the response becomes.

Resists quake damage with strength and ductility. Columns & beams will be damaged by a large quake.

When a large earthquake occurs, the response of building becomes large. Columns & beams will be damaged and in a worst-case scenario, the building could be destroyed.

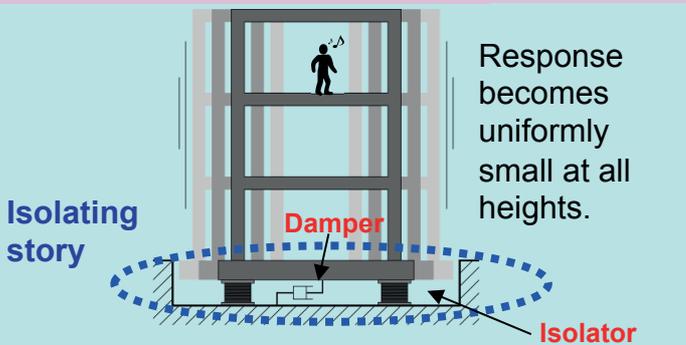


Make an isolating story between building and ground



Install energy absorbing device (=damper) in the building

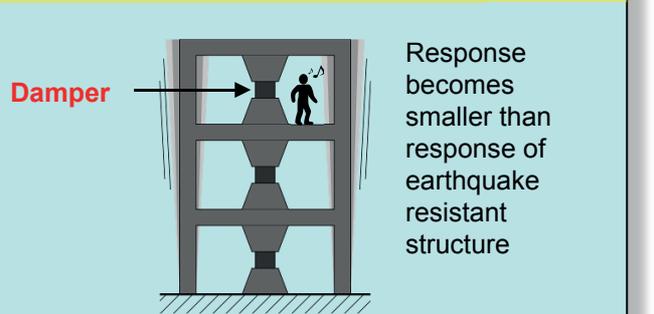
Seismic isolated structure



Response becomes uniformly small at all heights.

It is difficult for vibration to propagate from ground to building. The whole building vibrates slowly in the quake.

Response control structure

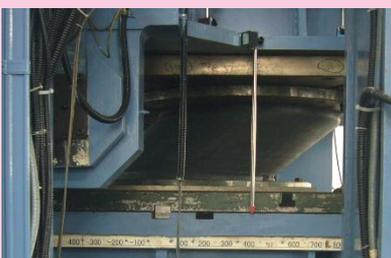


Response becomes smaller than response of earthquake resistant structure

Damper absorbs vibration energy of the quake. Columns & beams will be undamaged even by a large quake.

Technology provided by FUJITA

We have developed high performance / low-cost devices using a network of domestic and overseas manufacturers.



Isolator



Damper

