

"Quake Resistance, Vibration Control, Seismic Isolation"

Printed on page 40 "Passive Switching Type Oil Damper (Seismic Isolation Damper for Narrow Land in City)"

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The following structures are considered for recent building structures in order to protect the building itself, household goods, and residents in earthquakes.

1 Quake resistance

Quake resistance (structure) refers to the conventional structure to withstand quake energy by reinforcing the strength of pillars and joists, etc. for building structures.

Fig. 1 shows the image diagram of the quake resistance structure.

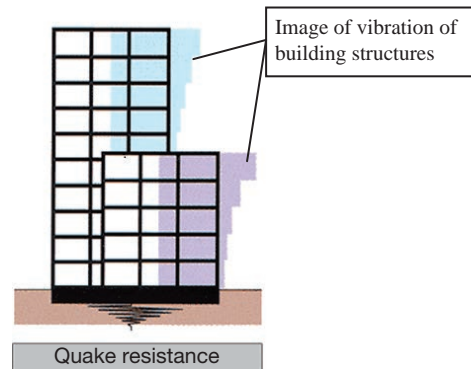


Fig. 1 Quake resistance structure image diagram

2 Vibration control

Vibration control (structure) refers to the structure, in which dampers are installed on pillars and joints, etc. of building structures to absorb/disperse quake energy to reduce deformation.

Fig. 2 shows the image diagram of the vibration control structure.

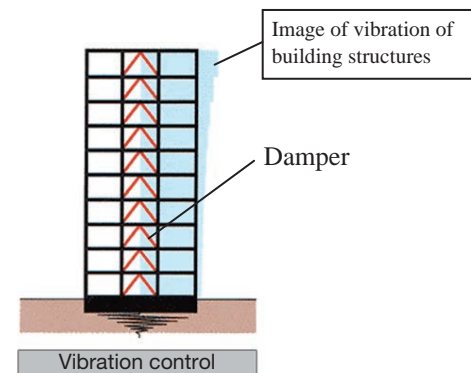


Fig. 2 Vibration control structure image diagram

3 Seismic isolation

Seismic isolation (structure) refers to the structure, which reduces vibrations of the building structure by installing the device called isolator (seismic isolation rubber, slide bearing, rolling bearing, etc.) between the building structure and the ground.

Isolators cannot stop the vibration that have been transmitted to the building structure, so dampers are also installed to stop the vibration.

Fig. 3 shows the image diagram of the seismic isolation structure.

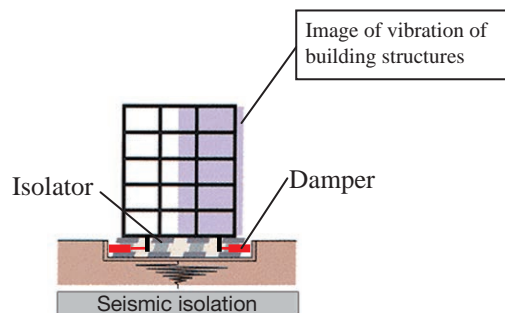


Fig. 3 Seismic isolation structure image diagram