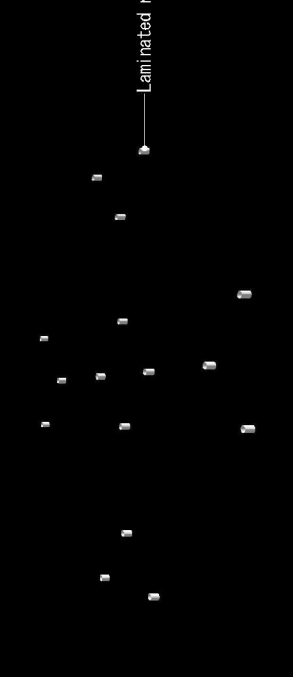
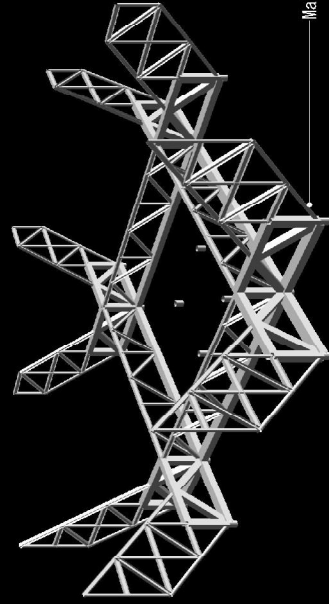
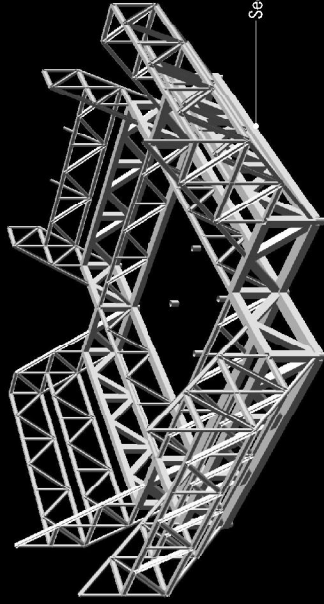
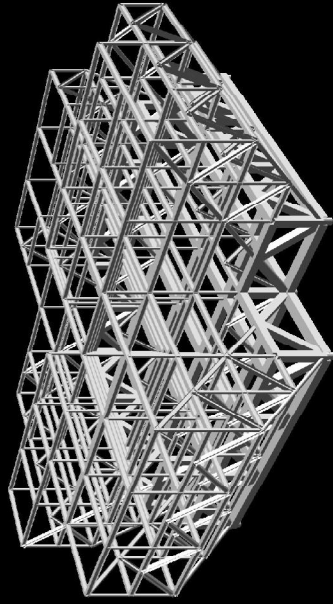
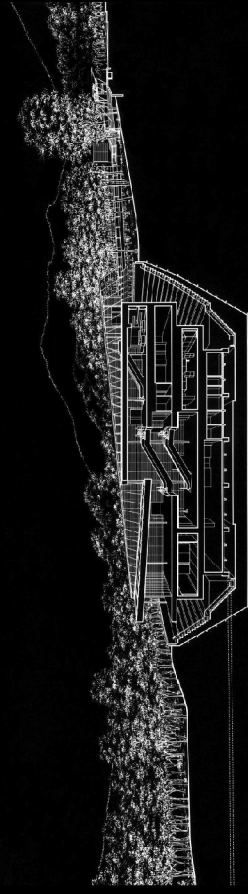


# Seismic isolation systems

We realize safe buildings that sway slowly.

## Pola Museum

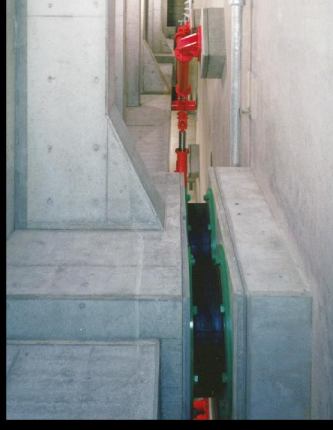
Pola Museum is in Fuji-Hakone-Izu National Park. To conform to the regulations of the Natural Parks Law, most part of the seismically isolated building is built under the ground and the substructure shaped like a trench is designed to withstand soil and water pressures. Main trusses in a double cross and sub trusses between the main trusses are supported on laminated rubber bearings to produce a high seismic isolation effect. The trusses play a role as members resistant to earthquake forces. In the internal spaces that are free from earthquake forces, a glass skylight through the building and a three-story atrium are laid out.



Secondary truss

Main truss

Laminated rubber bearing

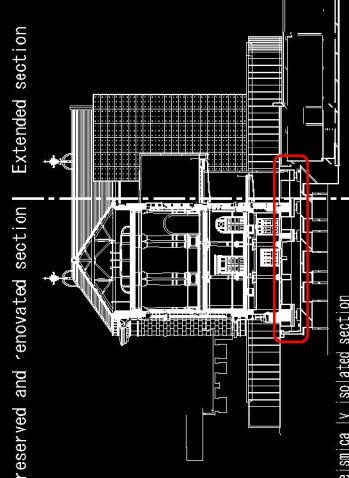


Seismic isolation layer

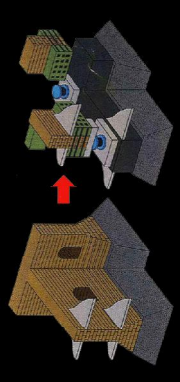
## The International Library of Children's Literature

Historical architecture of brick construction built in the Meiji Era is preserved by base isolation retrofitting as a library for children. In contrast to the massive existing exterior walls of brick and stone construction, the extended section is integral with the existing section using the materials symbolizing modern architecture, such as glass, steel and concrete. In the two glass shafts in the extended section that penetrate the existing section, the fire-resistant steel structural frames, which also serve as mullions and are stiffened with prestressing steel bars, support the roof and floor. The clear exterior skins of the building suspend the massive exterior walls of brick construction.

Preserved and renovated section



Seismically isolated section



Reliable earthquake-resistant measures by maintaining functions of disaster damage prevention centers



Osaka City Hall



Yamaguchi Prefectural Hospital