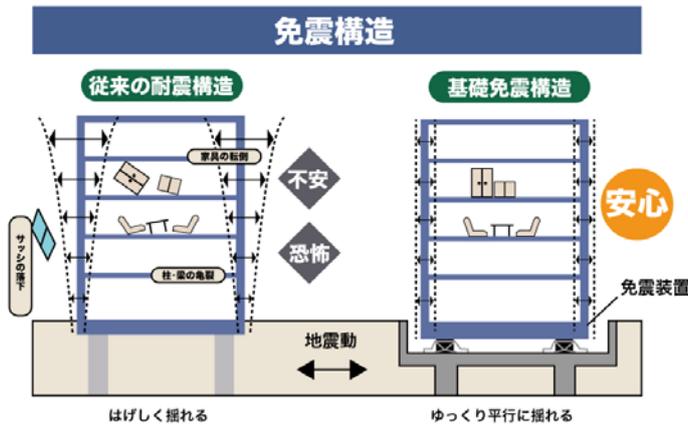


# 4. Aseismic method of the important building in Tokyo

## What is “seismic isolation retrofit” ?



the seismic base isolation rubber It

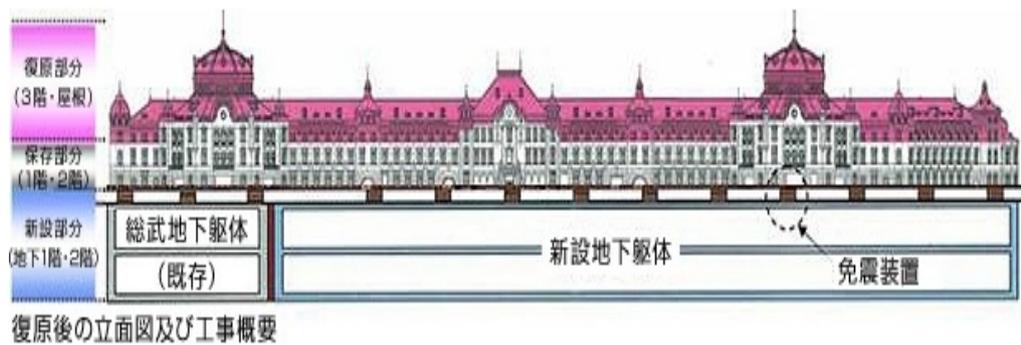
is an effective way to increase the seismic resistance without reinforcing the building. The method is to insert seismic base isolation rubber devices to the base part of the buildings (= seismic isolation retrofit). The seismic base isolation rubber quakes with the quake in the ground during earthquake, but the building above it hardly quakes.



↑ The comparison of the seismic base-isolated building (right) and non-seismic base isolation one (left)

## The retrofit of Tokyo station **Escape in tobrick-build Tokyo station when earthquakes hit Tokyo. You are safe and secure without feeling any quake.**

The brick-built Tokyo station building built of bricks designed by Kingo Tatsuno (a famous architect) was restored in to the form as it was before the war. And it was restored without changing the former design. In order to protect it from big earthquakes, the seismic base isolation rubber was set up under the existing building.



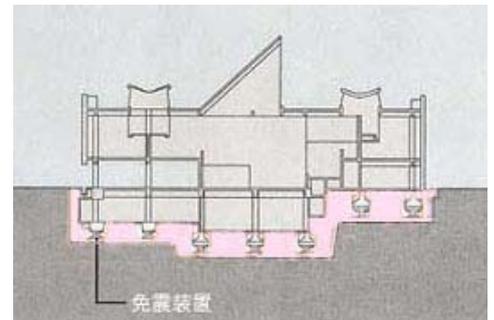
The seismic base isolation rubber was inserted between the new basement and the brick-built foundation. (about 350 rubber devices were placed.)

### The great point of Tokyo station

Tokyo station is a famous seeing spot in Tokyo and it is worth visiting to see the façade built of brick and also the decoration of the interior design of the ceiling of the domes, you may be impressed if you recall that the seismic base isolation devices always protect you from the earthquake.

### The seismic isolation retrofit of the national museum of western art in Ueno

This museum is designed by the world famous architect Le Corbusier and famous as a world cultural heritage site citizen of Ueno are proud of it. Unfortunately the piloti structure of the pillars on the 1<sup>st</sup> floor are vulnerable to earthquakes. The only way to solve that problem is “seismic isolation retrofit”. At the underground of the building, a brochure on the retrofit is placed on the wall.



Additional explanatory material :



A dome ceiling and gallery with 1900s' decoration



People who look up at a dome



The explanatory board about seismic isolator

Reference: Internet materials about JR and the national museum of west