

7. Seismic Observation of Base Isolated Buildings
- Earthquake Response of Base-Isolated Building on 2011 off the Pacific Coast of Tohoku Earthquake -

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Our Okumura Corporation has been observing earthquakes at 14 buildings throughout Japan including our Technical Research Institute building, Japan's first based-isolated building for practical purposes. Effective observation records were collected at a total of 11 Base-Isolated buildings during the 2011 earthquake including the records in strong-motion areas. It was verified that base isolation systems were adequately effective in the strong-motion areas and the effects of long-period seismic motions were identified. The validity of the analysis model in the design phase was also verified.

Key words : the 2011 off the Pacific Coast of Tohoku Earthquake, based-isolated, seismic observation, long-period seismic motion