

## Designing Roudbar Residential Complex Inspired by Anti-Seismic Technologies

**Authors :** Sara Hadad Dabaghi

**Abstract :** Iran is among the first five earthquake prone regions of the world. During the past 90 years, more than 85 catastrophic earthquakes have happened in Iran, leaving approximately 120000 casualties. Therefore, it is necessary to apply modern anti-seismic technologies to the construction of building such earthquake prone zones. This is especially the case with the northern regions of this country where the existence Khazar and Alborz Faults necessitate the observation of building construction security. Thus, the goal of this research is to solve this problem and to design earthquake resistant buildings. The present study is descriptive-analytical carried out on a mixed method platform. The study focuses on designing Roudbar Residential Complex adopting an anti-seismic approach. It is a cross-sectional applied research since its findings could be used to solve the security problems of Roudbar building with respect to earthquakes of the regions. The causality relationship in this research could be formulated as follows: the novel anti-seismic technologies increase security and reduce damages caused by earthquakes.

**Keywords :** design, residential complex, inspiration, anti-seismic technology, Roudbar

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