A base isolation system for seismic rehabilitation of the Iran Bastan Museum in Tehran was proposed. The seismic vulnerability of the structure in its present situation was first evaluated. Then the retrofitting strategy was organized in two steps, the first one consisting in the improvement of the seismic resistance of the structure using traditional techniques. Then, on the basis of the new seismic vulnerability the isolation system was designed, which allows to protect both the building and the priceless art treasures against the most severe earthquake expected at the site, preserving its historical and monumental character as well. The analysis was carried out according to the provisions of the Iranian guidelines and the Italian code. An approximate evaluation of the cost was also done.

References

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