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ANALYSIS OF NON-STRUCTURAL BRICK WALLS IN THE FORMER DAJTI HOTEL BUILDING, TIRANA, ALBANIA

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ABSTRACT

The earthquake of 26.11.2019, that occurred in Tirana and Durrës (Albania), identified a problem somehow neglected by Albanian engineers, which is the impact of seismic action on the non-structural brick walls present in buildings with reinforced concrete structure. In many buildings, these walls were damaged and destroyed, causing also deaths. In addition to many other problems, Albanian engineers should also pay attention to the calculation of these walls capacity from seismic action. This article focuses concretely and in a detailed way on the calculation of seismic action on the non-structural brick walls present in the former Dajti Hotel building, Tirana.

Keywords: capacity of non-structural brick walls, seismic action, EC 8, structure adaptation, reinforcement of non-structural walls with steel elements.