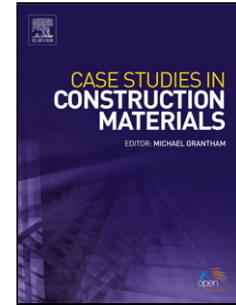


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# The incidence of alternative minimum load values in masonry partition and lightweight partition systems with a cost analysis in Barranquilla, Colombia

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## Abstract.

This paper presents the structural behaviour of a 11-storey tall rectangular building for residential use in three configurations with different partition systems. The three partition systems considered were as follows: masonry partitions made from clay brick, masonry partitions made from concrete block and lightweight partitions made from drywall. The structural analysis was carried out considering dead, live and earthquake loads. For the calculation of the dead loads generated by the non-structural elements such as partition walls two type of analysis were considered for each partition system. The first one with the alternative minimum loads suggested by the Colombian Earthquake Resistant Building

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