

## Factors Influencing the Use of Green Building Practices in the South African Residential Apartment Construction

**Authors :** Mongezi Nene, Emma Ayesu-Koranteng, Christopher Amoah, Ayo Adeniran

**Abstract :** Although its use has been criticized over the years as being unencouraging, the green building concept is quickly overtaking other concepts, particularly in the construction of commercial properties. The goal of the study is to identify the variables influencing the use of green building practices when developing residential structures. A qualitative methodology, using interviews with semi-structured open-ended questions to 35 property practitioners operating residential apartments in Bloemfontein, South Africa, was used to collect primary data which was analysed using thematic content analysis. The findings show that while respondents have a good understanding of green building principles, they are not being used in the construction of residential buildings in South Africa due to issues with green building approval procedures, the potential for tenant rent increases, the cost of materials, technical issues, contractual issues, and a lack of awareness, among others. This paper recommends among others an urgent need to implement measures by stakeholders towards enhancing the adoption of green building concepts in the construction of residential buildings as well as incentivising its construction through lowered property rates.

**Keywords :** green building, residential apartments, construction, South Africa

**Conference Title :** ICADBT 2023 : International Conference on Architectural Design and Building Technology

**Conference Location :** Barcelona, Spain

**Conference Dates :** June 19-20, 2023