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## Swimming pool structural design example

The document outlines guidelines for designing a swimming pool's structure, including geotechnical data, load calculations, and material selection. It assumes a soil bearing capacity of 50kN/m<sup>2</sup> and adopts specific densities and dead load allowances for structural elements. Superimposed dead loads, such as sand, will be added to live loads when the area under consideration is used as a work area. For earth-retaining structural elements, the earth pressure will be determined using Eurocode standards. The document also provides details on pool dimensions, structural components, and load analysis according to Eurocode standards. One key consideration for water tanks is ensuring they are watertight. A recent publication focused on the construction of underground water tanks and swimming pools using reinforced concrete, taking into account various factors such as geotechnical analysis, structural design, and loading. The publication provided a detailed overview of how Staad Pro Software can be used to model and analyze these structures. In addition to the written content, the publication also highlighted the importance of achieving water tightness on site through standard construction practices. To support this, I developed Excel spreadsheets for faster crackwidth calculations and video tutorials using Staad Pro. The publication is available in three packages, each catering to different levels of interest: **\*\*PACKAGE 1 (STANDARD)\*\***: NGN 3,000 - A 167-page PDF booklet on structural analysis of swimming pools and underground water tanks. **\*\*PACKAGE 2 (ADVANCED)\*\***: NGN 4,500 - The standard package plus Staad Pro video tutorials on modeling and analyzing underground water tanks. **\*\*PACKAGE 3 (SOPHISTICATED)\*\***: NGN 6,000 - The advanced package plus an MS Excel spreadsheet for designing slabs and calculating crackwidths.

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