



Engineering Structures for Life



BUILDINGS - COMMERCIAL

Kalandula Shopping

ABOUT

The Kalandula Shopping Centre is divided in two buildings, a four storeys shopping and a ten storeys support building.

The shopping building has a regular $200 \times 300 \text{ m}^2$ regular shape. Due to its large dimensions, several expansion joints were adopted leading to a set of 22 structural independent bodies. It was adopted a regular column matrix of $12 \times 8 \text{ m}$ supporting waffle slabs.

The support building is elliptically shaped with 130.20 m length and 25.20 m width. A central expansion joint was adopted dividing the building in two structural equal shaped independent bodies. It was adopted the same structural solution of the shopping building for the slabs except in the first floor where a solid slab was adopted.

- Construction Area – 254.634 m^2
- Services Construction Area – 22.901 m^2
- Commercial Construction Area – 102.257 m^2
- Parking Area – 128.766 m^2
- Construction Volume – $1.259.072 \text{ m}^3$

FACTS

Year: 2008-2009

Client: Ridge Solutions

Services: Conceptual design, Structural Engineering, Foundations design, Mechanical, Electrical and Plumbing design, Project Management

TEAM

Paulo Pimenta

LOCATION

Luanda, Angola