

Industry: Structures

Product: RAM

User: Medabil Sistemas Construtivos, S.A.

Country: Brazil

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RAM Produces Optimal Structural Solution for the Tallest Building in Brazil

Located in the fastest growing business region of Sao Paulo, Brazil, the WTorre Morumbi is the tallest corporate building in Brazil. With a modern and innovative design, it has two towers of 38 floors each, with a central span of 35 meters in length interconnected through five suspended walkways. The structure of the WTorre Morumbi building consists of two structural systems, the first being responsible for the horizontal stability and the second used to ensure the absorption of gravitational load.

Medabil Sistemas Construtivos was contracted to develop the structural design of the WTorre Morumbi. The key business objective of the project was to provide a structural solution for the reinforced concrete core: a metal structural work, composite columns from the ground floor, and all interconnecting structures (walkways). The structural design focused on streamlining the materials available in the market. Each element employed was used where it proved to be economically justifiable, taking into account the overall analysis of each solution. Medabil's objective was to demonstrate a differentiated, efficient, and cost-effective way to build multiple floor buildings in Brazil while considering all the possible gains along the way. The team reduced time spent on the basic and detailed design by 65 percent and reduced project costs by 50 percent.

Marcos Banhato, engineer for Medabil Sistemas Construtivos noted: "RAM software played a key role in streamlining these solutions based on overall cost. Through its easy interface of analysis allied to the great agility to review solutions, we could make comparative studies in record times; its interface with the detailing program added a lot of quality to the process, ensuring a fast and secure flow of information."

Image Link: <https://www.hightail.com/download/bXBhYnUwMVhqV0RMBjhUQw>

Caption: Medabil Sistemas Construtivos, WTorre Morumbi