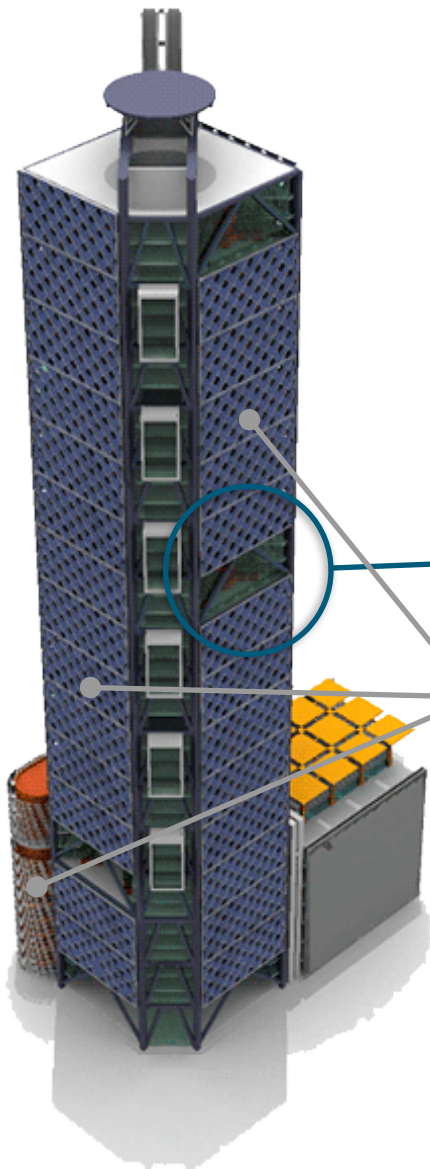


# TORRE BBVA BANCOMER

## BBVA | MARHNOS

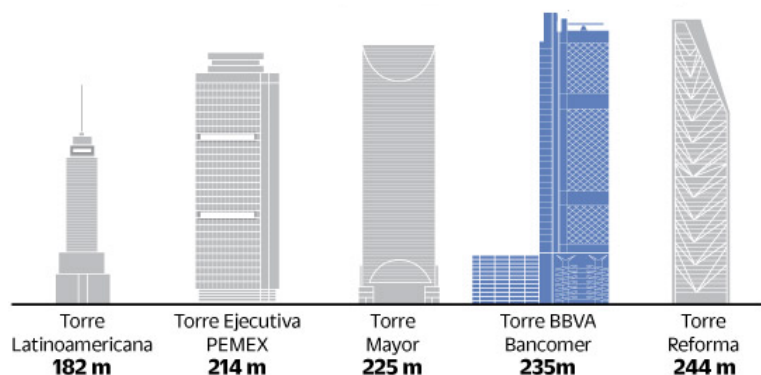


Years before, on these very same premises, Marhnos had built the Mario Moreno Tower, 95 meters high.

This time I would like to comment on the Torre BBVA Bancomer (BBVA Bancomer Tower), the bank’s corporate headquarters in Mexico City’s Paseo de la Reforma. The Turner-Marhnos association was in charge of supervising the project to ensure it would be completed on schedule and according to the requirements previously established by the investors and contractors of different specialties and nationalities, including Mexicans, North Americans, Spaniards, Chinese, Britons, Filipinos, Cubans and Costa Ricans.

The innovative architectural design by LegoRogers features the following characteristics:

- Vertical communities on nine levels, each with access to a communal garden. As Victor Legorreta explained, “We are exploring a type of architecture that promotes a sense of community and endows this area with a healthier, more efficient environment.”
- In order to optimize the temperature and lighting, the facade changes according to the direction it faces.
- The building’s 43 elevators can simultaneously transport 700 passengers.
- When its construction was completed, it became Mexico’s highest building, with a total height of 235 meters, consisting of 52 floors and 7 more underground, a total construction site of almost 189,000 m<sup>2</sup>, distributed over an area of 6,600 m<sup>2</sup>.



•Its 22,000 tons of structural steel is three times more than the steel in the Eiffel Tower, while its 70,000 m3 of cement is almost equivalent to two stadiums the size of the Azteca Stadium.

•The structure is earthquake-resilient. The impact of seismic energy mainly targets the stabilizing perimeter so as to prevent the collapse of the core structure. This perimeter consists of concrete-filled tubular steel pieces. In view of the high levels of structural safety and its systems, the certification for NON evacuation of the building in case of earthquakes, is in process.

•Its substructure and foundations are reinforced concrete parietal to the premises; the piles and the basement are built according to the top down method, that is, the construction is conducted upward, in sections, as the excavation progresses.

For everyone involved in this project, what was being built was as important as the way it was accomplished, with a great sense of social responsibility and sustainability. In addition to managing and coordinating the project, the Turner-Marhnos association was in charge of security, and succeeded in completing the construction process with long periods without a mishap, with a record of 5,300,000 man –hours without a single accident.



The structure is able to oscillate up to 2 meters at the top to release load.



Assembling a solid task force was crucial to achieving the success of the project. This was our principal challenge and the first that we overcame. Due to the participation of multidisciplinary and multicultural teams, communication and coordination were essential to achieving the appropriate synergy.

These buildings are not only the result of excellent teamwork, but also the reflection of extraordinary scientific and technological advances.

The Torre BBVA Bancomer is applying for the Gold LEED Certification. This voluntary certification (Leadership in Energy and Environmental Design) was conceived by the Green Building Council that evaluates the sustainability of the design, operation and maintenance of these buildings, whose standards may earn them the silver, gold or platinum categories.

