

Aspire Tower at Doha

Doha (QA)

Mission: design and execution

Owner
Emirat du Qatar

Architect
Hadi Simaan

Cost of the works
€ 24 M excl. vat

Studies
2005 - 2006

Execution
2005 - 2006

ST CM



This 300-meter-high tower has been built within sixteen months.

It houses in the lower part a five-stars hotel with a swimming-pool 80-meter-high above ground level.

The other areas are located in independent blocks linked to the concrete core of the tower and consist in :

- a presidential apartment,
- a sports museum,
- a rotating restaurant,
- a panoramic platform.

The Greisch engineering office, as a partner of the Belgian company "Jungbluth Alu partners", has designed the tower facade:

- the 70 lower meters are composed of two different constituent layers: glass and stainless-steel mesh panel;

- the whole facade is made up of stainless steel mesh panels;
- the facade geometry is obtained by a steel structure, radial tubes and circumferential truss beams;
- the stainless-steel mesh panels are tensionned on individual steel frames. The frames are then hung from the truss beams;
- the whole facade is hung from the different blocks.

Facade characteristics:

- 30 000 m² stainless steel mesh,
- 10 000 m² glazing for the lobby,
- 12 000 m² glazing for the hotel and the different blocks,
- 2 200 tons of structural steel relative to the facade.