

Swimming pool Roof Structure for the Colombo Shopping Centre

The roof of the Colombo Shopping Centre was built over an already existing swimming pool, with a covered surface area of 3,100m². The main condition required in the design was simple dismantling of the structure.

The tensegrity-type structure consists of two cable frames: an upper pressure cable, a lower suction cable and a central shore.

The cables are anchored to masts stayed to the existing structure.

Each cable frame covers a span of 15.0m.

In order to permit manual assembly and dismantling of the structure, the central shore was made of epoxy fiberglass.



Portugal /1997 Project data

Structural type:
Tensegrity-type roof of steel cables,
fiberglass struts and PVC membrane
Location:
Lisbon (Portugal)
Opening date:
June 1997
Proprietor:
SONAE
Construction:
Comercial Marítima
Steel structure:
FAMECA
Scope of Works:
Construction Project