



El Salvador Hospital

Santiago, Chile / 2019

Structural type
Owner
Client
Constructor
Scope

steel structures
DiCYP
DiCYP
Constructora y Edificadora GIA+A S.A.
detailed design



The new Hospital del Salvador is projected in the commune of Providencia in the city of Santiago de Chile. The approximate area of the hospital is about 130,000 m² distributed in four towers of four floors above baseline. The towers share two common floors at levels of first underground and ground level (first floor), which are seismically isolated by elastomeric isolators. Under the isolators are two additional underground floors, intended for parking of light vehicles, occupying all the projection of the building.

The four towers of the upper structure host Open Attention, Hospitalization 1, Hospitalization 2, and Geriatrics. The earthquake-resistant structure at the upper levels (superstructure) corresponds to a seismic frame system. The basal level of the seismically isolated superstructure is at the level of the second underground. At this level, the system of seismic isolation has been located, under which the construction of a continuous beam grid is proposed, collaborating very significantly in the containment of ground, both static and dynamic. The substructure, located from the top of the 2nd underground to the level of foundations, will be structured based on a special seismic frame system. The expansion joint at the first underground level between the superstructure and the perimeter walls is 45 cm width, due to seismic movement independent that must be between the isolated and the non-isolated structure.

Fhecor has developed the steel structures located mainly on the roof of the hospitals and that serve to support photovoltaic panels as well as the main hospital MEP. Fhecor has also developed the construction project of the different elements of urbanization such as retaining and enclosing walls, ramps and access tunnels. The entire project has been developed with BIM methodology which allows coordination in the same workspace of the different disciplines and agents that participate in the project.



C/ Barquillo 23, 2º | 28004 Madrid | España
T. (+34) 917 014 460 | F. (+34) 915 327 864
www.fhecor.com | fhecor@fhecor.es

