

Client GESS – Grupo Espirito Santo Saúde
Contractor EDIFER / OBRECOL
Acoustical Consultant Engenharia de Acústica e Ambiente, Lda.
Surface 2000 m²

The Luz hospital, situated in the heart of Lisbon, represents a new concept for private hospitals in Portugal. The hospital consists of three different buildings, which are directly connected to one another. The different buildings include:

- the emergency and operation section
- the residential section (short to normal stay)
- the senior section (for long-term stays)

The owner’s objective was to have the best equipped private hospital in Lisbon. In order to realize a high quality towards the patients on every possible level, a lot of attention was paid to acoustic isolation issues.

One of the main acoustical issues concerned the location of the technical rooms (for HVAC) right above the surgery spaces and patient rooms.

In order to reach a suitable noise level just below the HVAC equipment, the entire technical floor was made floating by means of a jack up system. A surface of approx. 2000 m² was treated with the CDM-MONT-100 system to create a 100 mm thick reinforced concrete floor. The floating floor was divided into different sections, having different inclinations, to allow for a good drainage in case of leakage of equipment.

