

New Al Ain Hospital – Heliport (UAE)



Project description

The design phase of New Al Ain Hospital project began in 2009. The Hospital has the size of 358,000 m², more than 700 beds and an underground parking facility for 1,500 cars.

The entire design of the hospital is done according to the German building standard, which is one of the strictest in the world.

The hospital complex was designed to be as environmentally sustainable as possible. Hence, the building is equipped with a solar system for a renewable energy source and an efficient water supply to reduce water consumption.

There is also a heliport located on the roof of the hospital, where the high up-lift forces posed a particular challenge.

mageba scope

To secure the rooftop's heliport it is crucial to properly allocate the high up-lift forces within the platform structure. Therefore, mageba supplied four project-specific designed VIBRAX®BLOCK UPLIFT deformation bearings with up-lift claws in order to withstand high up-lift forces.

Furthermore, to ensure the required natural frequency, each bearing was equipped with two smaller additional VIBRAX®BLOCK vibration isolation bearings. This design is essential to avoid disturbing vibration noise throughout the building which the turbines of a landed but still running helicopter would generate.

Highlights & Facts

mageba Products:

Type:	VIBRAX®BLOCK UPLIFT deformation bearings
Feature:	VIBRAX®BLOCK Anti-vibration bearings
Installation:	2017

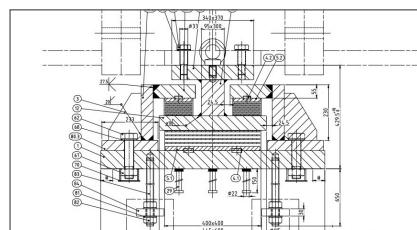
Structure:

City:	Al Ain
Country:	United Arab Emirates
Type:	Hospital
Built:	2017
Owner:	Abu Dhabi General Services
Contractor:	Arabtec-Sanjose J.V
Engineer:	IFO
Architect:	ICME, Faust Consult and Obermeyer

The hospital is located in the city of Al Ain, in the United Arab Emirates



The cross section of the installed bearings



Installation of one of the delivered bearings

