

SuMMa Sustainable Museum of Masdar

DESIGN STRUCTURE

Roof Garden - Photovoltaic panels settle above a water layer / reflecting pool / body of water working as an open air gallery.

The Gantry - A majestic gantry hangs vertically the main block of the gallery, leaving a pilotis level above it and a free of structure and democratic ground floor.

Pilotis Floor - Above the Main Block Gallery and under the Roof there is a floor of structural tie rods, occupied by the use of equipments of air conditioning, for example.

The Main Block Gallery - Suspended in the air, The Main Block Gallery is a 7.500 m² structure whose area is wisely divided into galleries, a theater, informal amphitheatre and commum places.

Ground Level Forest - Settled under the main gallery, it is a democratic space that works as an enlargement of the street and park, whose objective is to invite only users and visitors but also the citizens and passerby by arousing their curiosity.

The Lower Level Access - The Conection Building - Intentioning to ___ outside the Gantry area but conected to it, there is a building where the administration area, security and private access, vertical and social and private circulations, café, lobby, etc.

BIOCLIMATIC CONCEPTS

Unique spaces unbound by disciplinary categories range in size, height, infrastructure, flexibility of work and also conscious use of natural features such as wind and light, aim to transform issues due to the dry and hot climate into potentiality and quality.

DIMENSIONS

Ground Level - 12.500 m² of covered area - ceiling high: 12 m

Main Block Gallery - Devided into three areas: the lobby and commom area (1.000 m²), the gallery (3.100 m²) and the theater and informal amphitheatre (3.100 m²) - ceiling high: 5 m (gallery) | 9 m (theater)

Roof Garden - 10.000 m²

The Conection Building - 8 floors (280 m each)

Total height: 24 m + 6 m (PV panels)

PRIMARY MATERIALS

