

PROJECT REPORT



VALLETTA DESIGN CLUSTER, MALTA



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PROJECT DATA

Area: ca. 500 m²

Construction Year: 2020/2021

Architect/Design:

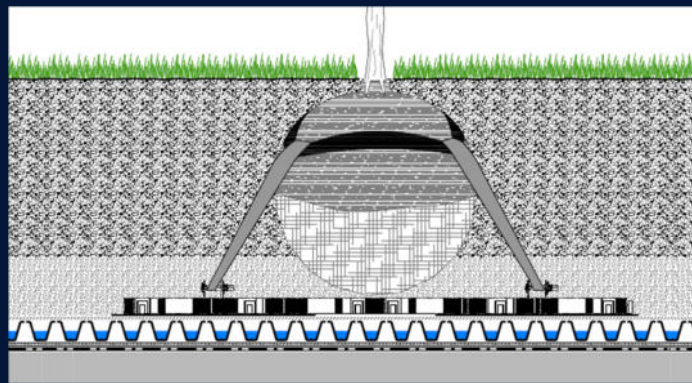
Tetsuo Kondo Architects, Tokyo

Contractor:

Derek Garden Center, Qormi QRM, Malta

System Build-up:

“Roof Garden” with Floradrain® FD 40-E and Roof Tree Anchorage Robafix®



SYSTEM BUILD-UP

Plant layer with trees, shrubs, ground covers, climbers, perennials and grasses

System Substrate “Lawn” or “Roof Garden”

Zincolit® Plus as sub-substrate

Filter Sheet TG

Floradrain® FD 40-E

Protection Mat ISM 50

Roof construction with root resistant waterproofing

CONCEPTION

The Design Cluster is the new heart of the artistic and cultural scene in Malta. The ca. 500 m² roof garden is located on a 400-year-old building and features a variety of design aspects. It serves as a community space and is the first roof garden in the whole of Valletta that is open to the public. There are a number of seating areas for social gatherings, pavilions for meetings and workshops, a small theatre space and a natural pond. The roof garden against the historical backdrop is a virtual paradise dedicated to relaxation, strolling and new

inspiration. The entire area is divided into ca. 270 m² of walkways and ca. 230 m² of planted space. From a technical point of view, all this was realised above the Floradrain® FD 40-E elements which were applied across the entire area. Under the walkways they were also used as a permanent formwork. As trees on a rooftop are exposed to high forces from wind pressure and wind suction, the tree anchorage system Robafix® was used. It is installed without any roof penetrations.



With the tree anchor system Robafix®, the tensioning straps are attached to three anchor points of the grid element, thus permanently securing the root ball.

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The drainage and water storage element Floradrain® FD 40-E, fitted across the entire area, is used as a permanent formwork for the pathway made of concrete hollow blocks.

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The natural stone of the benches is from a local quarry.

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