

MUSEUM OF THE FUTURE

DUBAI - EMEAR - U.A.E.



TYPE OF PROJECT
Landscape Architecture

YEAR OF CONSTRUCTION
2021

CLIENT
MERAAS

CONTRACTOR
BAM International

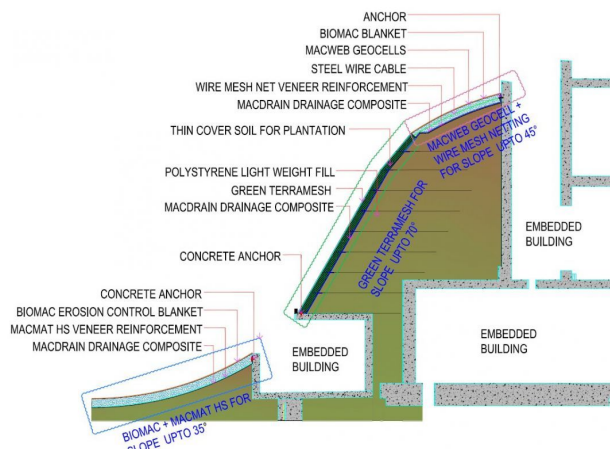
DESIGNER
Buro Happold Engineering

PROD. RELATED

BioMaterials (9,000 M2), BioMaterials (12,500 M2), BioMaterials (6,000 M2), BioMaterials (3,000 M2), BioMaterials (3,000 M2), BioMaterials (3,500 M2)

Challenge

The Museum of the Future (MOTF) is a unique initiative by the Dubai government that explores the future of science, technology, and innovation and will be located at a prime spot in Sheikh Zayed Road and near the Burj Khalifa. The architect 'Killa' designed MOTF in three main parts: the lower green hill, the upper building, and the elliptical void, representing earth, mankind & innovation, respectively. The inspiration for the green hill was also to elevate the building calmly and unobtrusively above the metro line and create greenery in elevation where visitors can enjoy while engaging with the Museum. The green hill is to be done through a smooth transition from the site as an earthen, vegetated mound with a minimal visible built intervention. A three-story podium structure will be embedded inside the green hill, which will house the lobby, auditorium, cafés, restaurants, retail, car parking, etc. For the aforementioned reasons, the vegetated mound must be done as a THIN CLADDING of varying slopes rather than a solid earth hill.



Sectional detail of Maccaferri green cover solutions



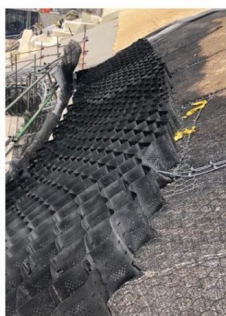
During construction: embedded building before covering

Solution

Maccaferri Middle East was chosen as the technology provider for the GREEN COVER SYSTEM; thanks to the wide range of products in our portfolio that can achieve the varying slope requirements of the artificial green mount in the project. After studying the landscaping requirements, Maccaferri proposed to categorize the green cover system based on final slopes, and accordingly, the products were suitably chosen as (1) Biomac cover for slopes up to 35-degree inclination, (2) Macweb geocell for slopes up to 45-degree inclination and (3) Green Terramesh reinforced soil system for slopes up to 70-degree inclination. For the first two cases, continuous veneer reinforcement was proposed below the thin soil fill by means of Maccaferri wire netting or Macmat HS, which will be anchored on the concrete beams at the top. Additionally, Macdrain drainage composite was proposed below the entire surface area of the green cover system for the easy draining of continuous irrigation water expected in the future. Maccaferri Middle East was involved in the design, supply, and construction assistance of the project.



Macmat HS & Concrete Anchor Installation



Macweb Geocell & Steel Cable installation



Biomac Installation & Plantation Works



During construction: various phases of installation works

During construction: Macweb geocell (before & after)



During construction: Green Terramesh soil slope (before &



Completed 'Museum of The Future' project (distant & close



OPEN GOOGLE MAPS



OPEN GOOGLE EARTH