

DESIGN & BUILD OF AN ORNAMENTAL LAKE TOR DI QUINTO – ROME, ITALY

ENVIRONMENT / DAMS AND RESERVOIRS

Product: MacMat, Macline GCL, MacLine SDH

The design for improving the area in question included the formation of an ornamental lake, with an area of approximately 25,000 m², inside the park near Viale di Tor di Quinto in Rome. The waterproofing package was studied in considerable detail and it was finally decided to use a composite system consisting of a 0.5 mm thick high density polyethylene membrane **MacLine SDH 050** (with the main aim of preventing the growth of vegetation) covered by a bentonite geocomposite. In order to stabilise the backfill layer (approx. 30 cm) placed above the **MacLine GCL N20**, with the aim of controlling its expansion, a **MacMat** geomat was used on the bottom and a **MacWeb** geocell was used on the side slopes (ref. detail on page 2).

The lake was completed with just a few weeks work. It should be noted that overflow pipes were installed on the bottom of the lake as well as three fountains. The ease of construction and the effectiveness of the final result justified the design decisions.



View of the lake



View of the lake



View of the lake



During construction



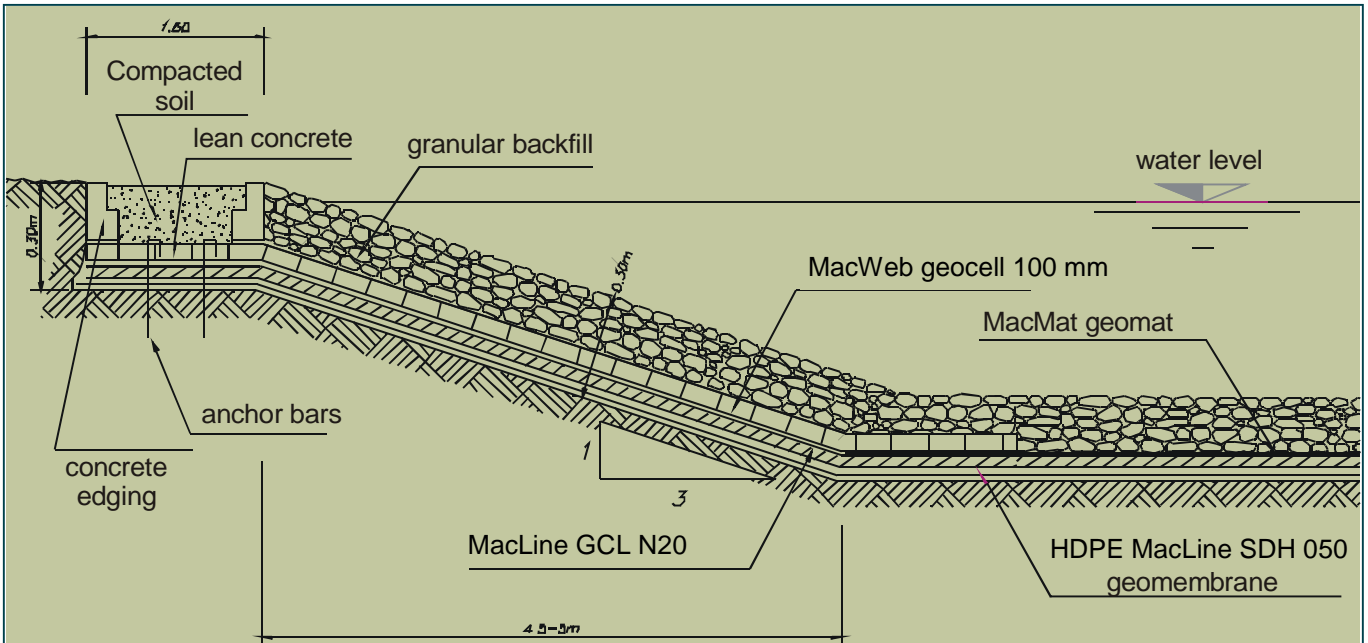
During construction



During construction



During construction



Design layout

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