

Detention Tank

Project Location

Villa Riva Apartment Complex, Miami, Florida, USA

Project Details

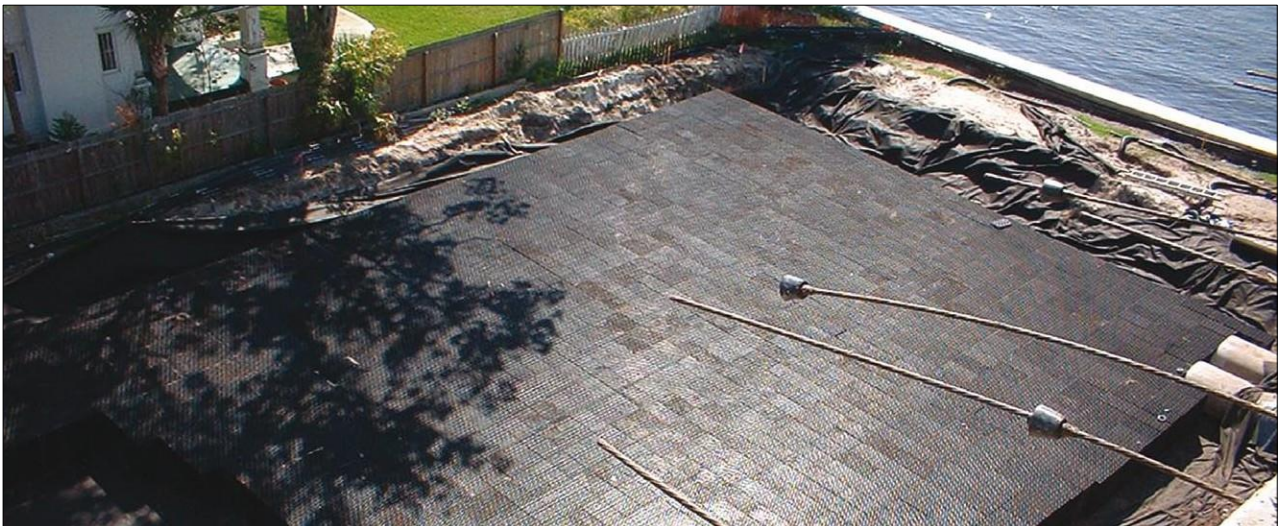
Detention tank installation for an apartment complex

Completion Date

January 2004



Installation of the Atlantis[®] Matrix[®] tank modules.



A partial view of the Atlantis[®] Matrix[®] infiltration Tank Installation.

Following a change in the local country's environmental policy, Atlantis products were selected as an alternative new technology providing zero contamination of the local waterways.

An Atlantis rain water system to cope with 1/100 year storm water tank was placed below the parking lot area adjacent to the apartment block complex in order to store the rain water from the roof. In conjunction with this, a layer of 52mm infiltration cells was placed under the tank to disperse any emerging water coming from the sub-soil

beneath the tank. In this situation the water from the roof accumulates in the tank and infiltrates into the water ways through the soil profile, thus achieving the objectives of the environmental guidelines.

Due to the superior crush strength of the modules, a parking lot was placed over the top and was provided enough ballast to keep the tank modules in place without the risk of crushing. The overall tank size was 750 m³ (750,000 litres).



Laying of 52mm cell for underdrain.



Atlantis® Matrix® double tank modules being laid into place



52mm Atlantis® Drainage Cells covered with geotextile in preparation for Atlantis® Matrix® Tank Modules.



Inlet pipes for Atlantis® detention tank.

Note: Atlantis® products are manufactured from high quality recycled materials, carefully selected and under strict quality control procedures. The strength could vary slightly due to raw material, country of manufacture, manufacturing process and external conditions.

Safety Factors: Engineers, designers and geotechnical engineers should design and calculate safety factors to a serviceable limited state to suit specific project. In case of doubt, consult your nearest distributor or Atlantis representative.

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