

# Nadd Al Hamar Beirut Road Tunnels

DUBAI, UNITED ARAB EMIRATES



**Client:** Dubai Municipality  
**Contractor:** Al Ghandi CCC JV  
**Engineer:** Parsons DeLew Cather  
**Scope:** Design and Supply of 8,800 m<sup>2</sup> MSE Walls  
Using the EarthTrac PET™ System  
JN 120 MSE ramps & JN 30 walls

In August of 2003, VE Geostrucutres Ltd., were asked by Main Contractor to design and supply MSE walls for two junctions on the Nadd Al Hamar Beirut Road Tunnels project. The structures include traditional MSE ramp walls up to 10 metres in retained height as well as four spill through abutment headwalls.

**System Selection:** EarthTec's EarthTrac PET™ system was selected in competition with other MSE systems available in the Middle East.

Not only was it the most price competitive but the EarthTrac™ system also proved the most reliable solution, providing a completely non-metallic connection that avoids casting polyester loops into the potentially aggressive concrete panel. In addition, the patented connection provides a tight mechanical connection, making it easier for the contractor to control facing panel movements.

**Design:** Design was undertaken in accordance with AASHTO Bridge Design Specifications and allowed for potential seismic loadings. Special panel design details allow the Alvitrac™ reinforcements to pass around the piled abutment supports. In addition special details deal with drainage runs and other services.

**Construction:** Complex road traffic diversions demanded construction in stages. VEGEO provided on site supervision and technical construction assistance throughout the process ensuring the end product was completed to a high standard and within code tolerances.



Let EarthTec's innovative solutions help you save time and money on your next project.  
For the best MSE Walls on Earth, please contact us.

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