



## BOTTOM LINER LANDFILL ZUTPHEN (THE NETHERLANDS)

A former landfill and polluted industrial area were designated for construction of Zutphen city's new industrial estate. The entire landfill was excavated, sieved and partly recycled. The remaining waste was stored in a new isolated field, which was integrated in the design of the new industrial area. Remediation is still continuing. In a later stage a cover barrier will be constructed.

### Project details

|                      |  |
|----------------------|--|
| Principal            | : Municipality of Zutphen  |
| Contractor           | : Vink Aannemingsbedrijf BV Barneveld  |
| Quality control      | : Fugro Arnhem   |
| Year of installation | : 2006   |
| Type of construction | : Landfill bottom liner  |
| Surface covered      | : 22.000 m <sup>2</sup>  |
| Layer thickness      | : 7 cm flat- tolerance +2 cm<br>12 cm on slopes - tolerance +2 cm                          |
| Construction         | : Waste<br>Drainage layer (30 cm)<br>HDPE geomembrane (2 mm)<br>Trisoplast® (7 cm)<br>Sand |



*Mobile mixing plant installed at project location.*



*Application and compaction of Trisoplast.*