



Soil treatment for the
Aéroconstellation site
Soil Improvement and reinforcement
2002 - 2003



FRANCE - Blagnac

Client

SETOMIP

Project owner
SETOMIP

Miscellaneous

33 ha runways,
22 ha various pavements,
400 000 m³ cut and fill
material treated



Description of the project

The AEROCONSTELLATION industrial facility was built in Blagnac, close to Toulouse airport, on a site of about 170 hectares. It was intended to host the production operations of the future high capacity aircraft AIRBUS A380.

The specificity of the project lies in :

- the loads applied to the runways by the aircraft. The total loaded weight exceeds 6 MN for some configurations.
- the tight deadlines for the construction of the buildings housing the future assembly lines and infrastructures (works started in 2002 – aircraft production started in 2005), requiring works to be carried out in unfavourable periods.
- the requirements and performance levels requested for the platform to meet both constraints above.

Description of the mission

The preliminary studies anticipated structures that required the use of very important quantities of filler aggregates. The alternatives proposed during project design stage consisted in systematically treating the existing soils, the subgrade being made of the superficial existing soils treated with lime and hydraulic binders.

The use of treated materials as a substitute to granular layers was quite interesting in terms of cost savings for the project, and more generally of management of regional aggregate resources.

Key features

TERRASOL carried out the geotechnical studies and the design of runways and pavements, and later followed-up the works, SETEC acting as the project manager for the aeronautical platform.