

Rainwater pretreatment treatment plant

Airport of MARSEILLE PROVENCE (13)

An international airport at the crossroads of the lines between North Africa, Corsica and Paris, the airport of Marseilles Provence handles 8 million passengers and 100,000 planes a year. In the framework of the **putting into conformity** of its rainwater discharges, the ICC Marseilles Provence issued a call to tenders for the pretreatment and treatment of the runoff water from an aircraft parking area and vehicle parking areas.



APPRAISAL

Our engineers' appraisal led to retaining innovative materials made from honeycomb sandwich board. On this basis, 7 composite material structures were designed and manufactured to meet the target discharge objectives. This equipment is preceded by a control of the flow rates and volumes.

Date of commissioning	2012
Client	CCI Marseille Provence
Contractor	Société des Eaux Marseille
Company	DG Construction

DESIGN

Strong points of the oil interceptors and settlers

- Substantial flow rates treated: 4 sludge trap/oil interceptors with a nominal size of 500 l/s and 150 l/s, et 2 lamellar settling tanks with flow rates of 170 l/s and 350 l/s
- Separation coefficient of 0.50 m² /l/s for an effective intervention on light liquids
- TTS settling velocities of 1.30 m/h for a substantial reduction in particulate pollution

Characteristics of the related equipment :

- Integration of a surface skimmer of the Surfreg type in a basin carried out with civil engineering
- Instrumentation with a light liquid and sludge blanket sensor in each structure



Sandwich board polyester casing

BUILDING

Manufacture of the treatment structures :

- Sandwich board casing with low carbon footprint
- High mechanical resistance (groundwater and backfill) and chemical inertia

Manufacture of the skimmer :

- Adaptability : tailored in stainless steel
- Operation : added a winch system for manual lifting

FOLLOW UP

In accordance with the call to tender, sampling and measurement campaigns are in progress, in order to ensure the purification efficiency of the structures installed. The preliminary analytical results demonstrate conformity of the discharges.



Surfreg surface skimming