

CASE STUDY

Les Mirandoles Nursery School Le Cannet, French Riviera

Storage Provided:	196 m ³
Models:	Recharger 330HD
Number of Units:	110
Installed:	June 2010
Project Engineer:	GEHYGEO Consulting Carros, Alpes-Maritimes
Contractor:	CARI Carros, Alpes-Maritimes



Started on June 21, 2010, this parking lot constituted the second phase of a large project within the framework of the construction of a new nursery school Les Mirandoles located in Le Cannet, French Riviera.

Primarily dedicated to the residents and the school complex, this 84 space parking lot is located on the side of the old school and its playgrounds. Beneath the lot hides the construction of a buried retention basin dedicated to limit the flow of stormwater downstream in the event of a strong rain.

The hydraulic study undertaken by GEHYGEO Consulting resulted in the consideration of a retention basin to capture a 10-yr. rainfall event with a flow of draining limited to 20 l/s for a total impervious area of 4,182 m² and a flow capable of filling of 66.91 liter by second.

Taking into account the location of this building site within an urban environment, where land prices are at a premium and availability of open space is minimal, the CULTEC retention system which combines high capture of storm water run-off while leaving the above surface area available for parking was selected for its effectiveness as storm water best management solution.

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Les Mirandoles Nursery School

Le Cannet, French Riviera *(continued)*

The area of the parking lot to be treated represented 2,400 m². The school added an additional 2,700 m² of impervious surface area.

The civil engineering firm CARI in charge of operating on this work site, assisted by ENVIROMAT (exclusive CULTEC distributor in France) designed and installed an underground CULTEC retention system that consists of 10 rows wide by 11 chambers long of the Recharger 330HD chamber system. This storm water system has the ability to capture, treat (one oil water separator was installed at the main entrance of basin) and store 196 m³ of run-off.



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