

A NEW APPLICATION OF STABIPLAGE®: STABIPLAGE IN FOOT OF DUNE, in Sarzeau, Morbihan, 2004

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| Place: | Beg Lann beach |
| Objectives : | Protection of the offshore bar and backwards zones (risk of broken or submerged bar) |
| Realisation : | 1 longitudinal STABIPLAGE®, in foot of dune |
| Duration of work: | from 10/04/04 to 11/15/04 |

In October 2001, answering the Sarzeau town council demand, the ESPACE PUR society realised a feasibility study of STABIPLAGE® technique for the protection of Beg Lann beach. This beach shows marine erosion problems at this moment, particularly on the top of the beach, where we observe a sedimentary deficit, especially on the offshore bar with a marine side already much eroded. This one has no vegetation and shows erosion embankment. The sedimentary stock of the dunes line diminishes, which makes it fragile and vulnerable regarding the marine constraint. Its position of «transition zone» between land and sea makes it a very important element for the system equilibrium: it protects back zones, naturally humid areas from risks of submersion. **A longitudinal work in foot of dune, with anchoring system, is recommended.**

Owner : Mairie de Sarzeau
Project Manager: Environment department of Sarzeau Town Council.

Technical description of the work:

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| Length : | 300 m |
| Height : | 0,80 m |
| Anchoring : | On the whole length, at a depth of 1m |
| Materials : | Geotextile NT permeable filter, polyester shell. |



Picture on the left: FC: 23/11/04

Less than 10 days after the end of the building site, there was a huge storm. The stable work has perfectly and directly protected the beach from the waves attack. On the work length, the dune line remained stable and there is no more risk of submersion.



The work characteristics (particularly permeability, monolithic body with few flat surface) enabled the absorption of the swell, reducing the perturbations (bounce effect, over pression, undermining) guaranteeing the dune line stability and enabling the sand to come against and over the work (pictures enclosed). The materials permeability will enable vegetation to settle on the new coastline and strengthen its stability. The aesthetic image of the site will then be better.

The Environment department of the Sarzeau Town Council is in charge of observations.