

# The Grève Blanche beach – Le Guilvinec – Brittany – Finistère - France

## Stabilisation of the coastline and valorisation of the littoral area

Location:	Grève Blanche Beach
Goals :	To stabilise the coastline and to raise the beach profile at the right side of an existing outlet
Works realised:	1 longitudinal STABIPLAGE® at the bottom of the dune 3 STABIPLAGE® at a 90° angle to the coastline
Period of work:	February 2005

In 2002, when ESPACE PUR made some analyses of the site on request of Le Guilvinec town, the beach of the Grève Blanche had and still has the following characteristics: a double unit system.

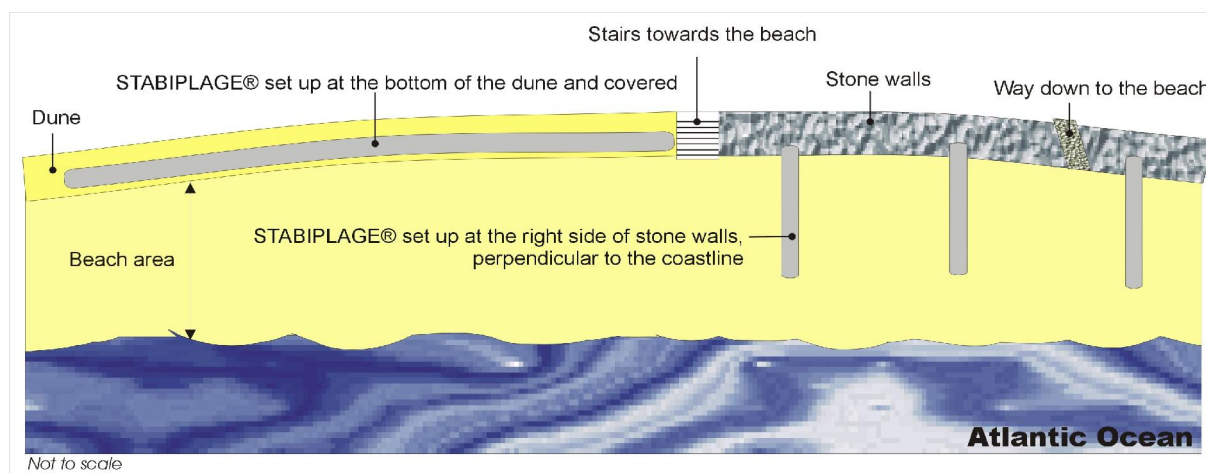
- the first one is equipped with stone walls along the top of the beach, which have put a stop to the coastline backward movement. Nevertheless, hydro-sediment disruptions linked to the reflective and “hard” aspect of the stone walls threaten their stability and their effectiveness, at the time of the analysis
- the second one shows a stone plateau and coastal dunes without any outlet. These last ones got damaged by marine and wind effects. In fact, the side of the dunes towards the sea is abrupt and wears erosion stigmas. This same area shows few sediments moving in a natural way and the coastline backward movement is very important.

In order to bring a sustainable solution to this part of the littoral of Le Guilvinec town, ESPACE PUR company has recommended to set up one work at the bottom of the dune and three works perpendicular to the coastline (to capture the sediments).

Technical characteristics of the STABIPLAGE® at the bottom of the dune

Length:	145 m
Height above the ground:	0,80 m
Anchoring:	on the whole length, 1m deep
Materials:	Geotextile NT permeable filter, polyester permeable shell

**Goals:** to protect in a direct way the dune and backward zones, to stabilise the coastline, to enable a better natural growth of plants, to protect and maintain the natural aspect of the site. The results appear on the following page.



Technical characteristics of the 3 STABIPLAGE® perpendicular to the coastline

Length :	35 m
Height above ground:	0,80 m
Anchoring :	on the whole length, 1m deep
Materials :	Geotextile NT permeable filter, polyester permeable shell.

**Goals:** to raise the beach profile at the right side of the stone walls; to make the sediments denser and stabilise its mass. At least, to offer a beach naturally secured, steady and attractive to people coming on site.

Further to the set up of STABIPLAGE® works, the dune recovers today its stability and the backward zones are now protected. Plants have spread all over the site, being the proof of the full integration of the work into the local environment.

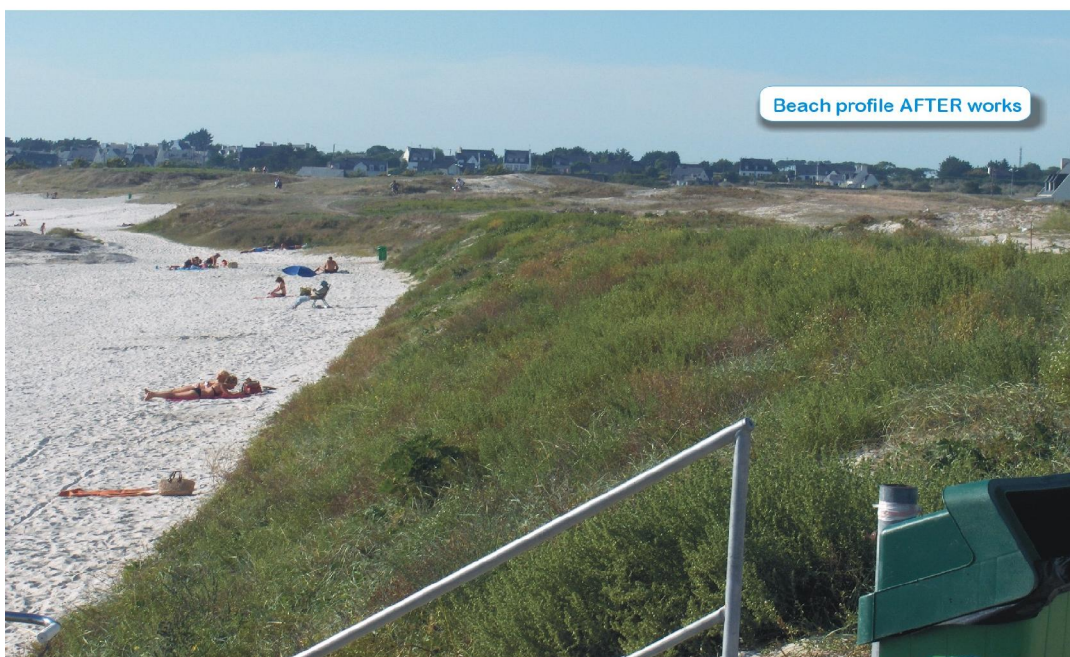
Moreover, the STABIPLAGE® works perpendicular to the coastline have enabled the stabilisation of the beach, even during storm periods. The sediment volume is steadily increasing and stone walls at the top of the beach are protected. At the end, the works should be covered by the sand thus captured.



Beach profile BEFORE works



Laying of the STABIPLAGE® (145 meters)



Beach profile AFTER works