

# GEOSYNTHETICS

## CASE STUDY Filtration / Canal Piastowski / Poland

### Protecting people and wildlife

#### Challenge

The Piastowski Canal is an important channel connecting several strategic ports of the Oder Lagoon to the Baltic Sea, connecting Szczecin and Swinoujscie, two cities at the very far West of Poland. Nowadays, Piastowski channel is the subject of modernization projects that should improve the navigation conditions. Key importance for the further development of the main ports is the deepening of the Szczecin-Swinoujscie airway and a subsequent stone strengthening of the channel banks. Furthermore, when large vessels go through the canal, waves are more than 0,5 m high and more than 0,5 m deep which would result in a serious damage of the canal banks if not properly protected.

#### Solution

TenCate Polyfelt® F60 provides excellent long-term filtration and low clogging risk. It is a 2 layer geotextile consisting in one nonwoven acting as a filter, the other layer serves as protection against mechanical damage. It is used for the strengthening and erosion protection of the canal banks. It is fixed by the divers on the banks (abt. 4 m on the bank and abt. 15 m under the water). Stones are put on the geotextile to protect the banks.

#### Benefit

TenCate Polyfelt® F60 proposed a cost effective solution to our customer. It enabled the houses and infrastructures in the neighboring parks and forest to be protected against erosion which would be caused by big ocean-going vessels. It allowed the wildlife along the banks to be protected from the impact of these large vessels.

#### Project Data

Application: filtration

Location: Poland

Product: TenCate Polyfelt® F60

Quantity: 500 000 m<sup>2</sup>

Contractor: ENERGOPOL (Szczecin, PL)

Date: 2014



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# CANAL PIASTOWSKI

Protecting people and wildlife



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