



## Groynes

[Source: TH](#)

Groynes are **low-lying wood or concrete structures** which are situated out to sea from the shore.

- They are **designed to trap sediment**, dissipate wave energy, and **restrict the transfer of sediment** away from the beach through longshore drift.
  - **Longshore drift is caused** when prevailing winds blow waves across the shore at an angle that carries sediment along the beach.
  - Groynes **slow the process of erosion at the shore.**
- They can also be **permeable or impermeable**, permeable groynes allow some sediment to pass through and some longshore drift to take place.
  - However, **impermeable groynes are solid** and prevent the transfer of any sediment.
- They are **very effective at protecting the coastline** in the short-term as they are immediately effective as opposed to some longer-term soft engineering methods.
  - However, they are **often intrusive and can cause issues** elsewhere in other areas along the coastline.

**Read More:** [Coastal Erosion](#)

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