

## **Best Practice: Concrete Posts and Fencing Added to Breakwall**



<b>Category:</b>	Perimeter Control
<b>Location:</b>	Dakar, Senegal
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**Description:** The port has constructed a ten foot poured concrete-chain link fence with a two foot concertina wire topper along the perimeter break wall of the facility. The break wall forms a physical barrier along the waterside perimeter of the port. The addition of this wall creates an impregnable barrier further increasing perimeter security.

**Discussion:** At a waterfront facility a common challenge to the effectiveness of walls and fences is the land and water interface, and how to prevent intruders from gaining access into the facility via the break wall. At the Port of Dakar, this issue was addressed by adding a poured concrete wall along the entire length of the break wall. This wall creates an additional level of security to the existing break wall.

**Potential Downside:** A wall of this type is susceptible to erosion from tidal forces. Concrete walls are expensive to construct on break walls and require regular maintenance to sustain their physical integrity.

**Conclusion:** In most places, the existing break wall suffices for an adequate level of perimeter security. The addition of a barbed wire concrete wall enhances perimeter security, further increasing the level of difficulty required to gain access to the facility.

**Cost:** Approximately \$150,000 (USD) to construct the 2500 meter length wall. Estimated \$25,000 (USD) per year to maintain.