

Facts & Figures: The Cable-Stayed Bridge

6 May 2011

- Total length: 17.6 kilometres from coast to coast
- Height of bridge girders: 12.9 metres
- Cable-stayed bridge, length: 2,414 metres
- The bridge is designed for the following speeds:
 - Passenger rail traffic: 200 km/h
 - Goods rail traffic: 140 km/h
 - Road traffic: 130 km/h
- Four-lane motorway and twin-track railway
 - At 17.6 kilometres, the bridge across the Fehmarnbelt would be one of the ten longest bridges in the world.
 - With spans of two times 724 metres, it would have the longest spans ever constructed for a cable-stayed bridge for both road and heavy rail traffic.
 - The three pylons would be 272 metres high. The Berlin TV tower has a height of 368 metres, including the aerial.
 - The pylons would be some of the highest bridge piers in the world (by way of comparison, the pylons of the Golden Gate Bridge in California are 227 metres high).
- Costing, cable-stayed bridge:

Cable-stayed bridge	Cost estimate 2010
Construction costs	EUR 3.5 billion
Other works	EUR 0.3 billion
Total construction costs*	EUR 3.8 billion
Project management, preparation for operation, etc.	EUR 0.7 billion
Reserves	EUR 0.7 billion
Total gross costs*	EUR 5.2 billion
Expected EU subsidy	EUR 0.6 – 1.1 billion
Total net costs*	EUR 4.1 – 4.6 billion

Femern A/S is tasked with designing and planning of a fixed link between Denmark and Germany across the Fehmarnbelt. Femern A/S is a subsidiary of the Danish, state-owned Sund & Bælt Holding A/S, which has experience from the construction of the fixed links across the Great Belt and the Øresund.