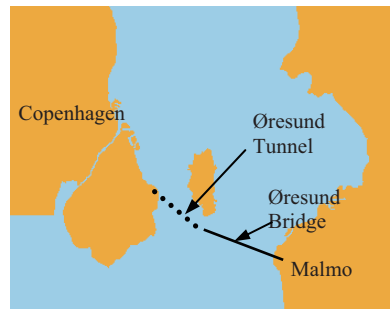


Øresund Tunnel Closure Bearings

Client: Øresundkonsortiet

Contractor: Øresund Tunnel Contractors
1999

From the coast of Denmark near Copenhagen a 2.2 mile Immersed Tube Tunnel carries the traffic to a 2.5 mile long artificial island. From there an almost 5 mile long bridge leads the highway and railway to the Swedish coast at Malmö.



Location Plan

The immersed tube tunnel consists of twenty pre-cast elements, each 176 m long, manufactured in a custom-made concrete factory.

The central closure between elements was formed insitu. To avoid releasing the compression in the rubber seals a fabric formwork unit was placed between bearings, and then grouted to ensure a perfect seal.



Tunnel Section Being Floated into Position

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Fabriform



Filled Pro-type Seal

A prototype test rig was made in steelwork and lowered to the sea bed for trial filling, and installation team training.