

THE ØRESUND FIXED LINK

The Øresund Fixed Link comprises a 16 km long fixed motorway and railway link across Øresund, with four major elements: An artificial peninsula from the Danish coast at Kastrup, a 3,5 km long immersed tunnel, a 4 km long artificial island "Peberholm" south of Saltholm and a 7.8 km long bridge from Peberholm to Lernacken in Sweden. RAMBØLL performed a complete illustrative design, of all four components.

Apart from the services on the major civil contracts ØLC performed a wide range of engineering services on mechanical, electrical, environmental, geotechnical, alignment, risk analysis and operational safety. The EIA

(Environmental Impact Assessment) was part of the legislative basis for the Øresund Fixed Link. Our Geohydrology department designed the groundwater monitoring programme as part of this EIA.

The construction of the immersed tunnel including the tunnel element casting yard at Nordhavn was supervised by our team. Also for the immersed tube tunnel elements, a detailed appraisal of planning, the control of the curing time and cracks, materials, procedures, testing and repairs was carried out.

RAMBØLL also provided a detailed design and technical supervision for Kastrup and Sydhavnsgade Station.

Customer

A/S Øresundskonsortiet

Location

Øresund

Period

1993-2000

Services provided

Illustrative Design

Environmental impact assessment (EIA)

Detailed design

Construction Supervision

Ramboll was the leading partner in the international consultant joint venture, the Øresund Link Consultants (ØLC).

