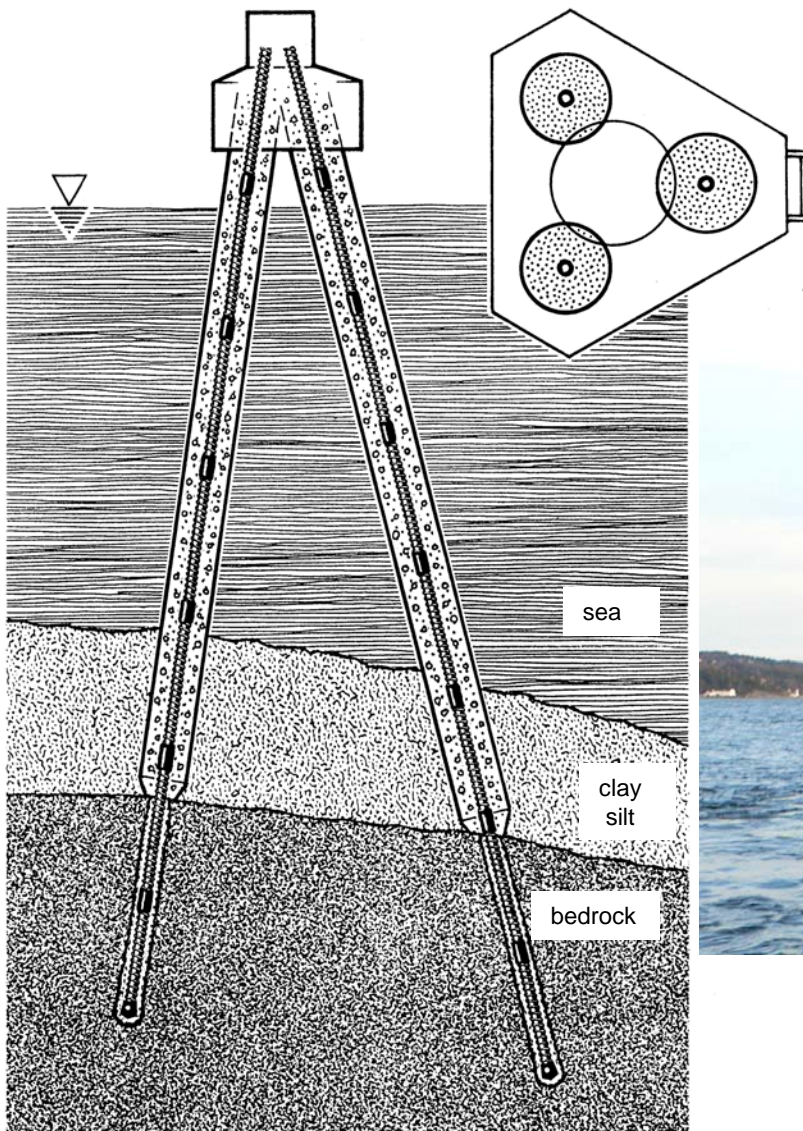




**Job: Foundation of Seamarks on Tripods of driven Steel Tubes reinforced by Micropiles TITAN 73/45**

Usually seamarks are founded on tripods of driven steel tube piles. The tubular piles with diameters of ab. 1 m are driven in the soft deposits of the sea. The necessary involvement in the deposits is difficult to estimate and to realize. Therefore it means a reinforcement, to drill and pressure grout additional micropiles TITAN 73/45 over the total length of the tubular piles until min. 3 m in the bedrock. Afterwards the tubular piles are completely filled with concrete. The micropiles can be checked by acceptance test. The tripod is now able to take tension and compression loads to with stand permanent storm, waves and ice.



**Seamark in Oslofyord (Norway)**