

HISTORIC CENTRE OF STRALSUND

World Cultural Heritage since 2002

Engineering geological conditions and problems:

Stralsund is situated at the southern coast of the Strelasund - a part of the Baltic Sea which separates Rügen from the mainland. The Strelasund is crossed by the Rügendamm bridge. The inner city of Stralsund was erected on a ground moraine plateau of the Weichselian glaciation interval. The plateau is surrounded by erosional channels that are filled with post-Pleistocene organogenic flood-plain sediments. Aggradations of 1 - 5 m thickness cover the whole area of the mediaeval town. Towards the outer parts of the city, Holocene peat and organic silt (up to 6 m thick) occur between the Pleistocene ground moraine and the reclaimed land. Organogenic sediments might also cover the ground moraine in the inner part of Stralsund. The deposits reach up to 3 m in thickness but can partly be remnants of early settlements. Areas with a thick cover of organogenic deposits or aggradations cause problems in foundation or reconstruction of buildings, e. g. the large churches or the ancient city wall made of brick stones.

In dry state the boulder clay is a load-bearing building ground, but sensitive to water. Ground settlements at the big medieval buildings have ceased. Traffic and alterations within the building ground have caused damages to church buildings. Statics related cracks are compensated by load relocations.



The gothic City Hall of Stralsund

Protection measures already have been taken or have to be taken:

Drilling logs of many wells and engineering geological reports about Stralsund and adjacent areas are kept in the archives of the Geological Survey of Mecklenburg-Vorpommern.



Historic town map

Other information:

Stralsund and Wismar town centres are typical examples of the Hanseatic towns at the peak of their development during the prime of the Hanseatic League in the 14th century. The ancient town centres have retained their medieval layout and bear witness to the establishment of towns thriving on shipping business according to the "Law of Lübeck".

Stralsund is marked by its characteristic insular location between the Strelasund and the 13th century lagoons.

References on studies already performed:

STACH, E., BIESE, W. (1944): Geologische Karte des Deutschen Reiches 1 : 25.000 - 1744 Stralsund. Reichsamt für Bodenforschung Berlin.
 KRIENKE, H.-D. (1996): Geologische Karte von Mecklenburg-Vorpommern 1 : 200.000 - Karte der quartären Bildungen - Oberfläche bis 5 m - 14 Stralsund. Geologisches Landesamt Mecklenburg-Vorpommern.