

HYPERBOLOID WATER TOWER ENGINEER V. G. SHUKHOV (BORISOV)

the water tower on Engels street in Borisov was built in 1927 by a unique engineering design. Hyperboloid shape design was introduced into architecture in the late XIX century by the engineer V. G. Shukhov. A single-cavity hyperboloid and a hyperbolic paraboloid are double – ruled surfaces, which means that two intersecting lines can be drawn through any point of such a surface. Along these lines are installed beams that create a characteristic lattice. This design is rigid and retains its shape under the influence of external forces. The world's first steel grid tower in the form of a hyperboloid was built by Shukhov for the all-Russian industrial and art exhibition in Nizhny Novgorod in 1896