KALLIERGOS O.T.M.
CONSULTING ENGINEERING COMPANY

OLYMPIC STADIUM OF BAKU - AZERBAIJAN

CLIENT:
SOCAR

PERIOD:
2013

CONTRACTOR:
TEKFEN

DESCRIPTION:

The Olympic Stadium of Baku has a capacity of 68000 spectators and a total building plan area of 87000 sqm. The steel roof main bearing structure comprises a series of 50m cantilever triangular trusses arranged radially towards the center of stadium. Truss cantilevers are supported on concrete columns on roof top and are fixed via tensioned members on the back. Back structure forms planar trusses the chords of which are the tensioned members and the concrete columns. Lateral stability bracings are placed between some of the concrete columns. Structural design of stadium was performed by Thornton Thomasetti. KALLIERGOS OTM S.A. performed structural verification of all main steel joints of roof. Finite element analysis was used in all joint verifications.