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Panathinaikos FC New Stadium

Date	Budget (€)	Employer
2008 - 2010	82.00	Aktor S.A.
	Owner	Place
	Panathinaikos FC	Votanikos, Athens

The new stadium has a capacity of 40.000 spectators, and the total of the grandstands is covered by the roof. The buildings housing the auxiliary installations are made of concrete and bear the stands' system, comprising of cast-in-situ beams and precast reinforced concrete stands. At each of the 4 corners, concrete pylons bear the steel roof, which is also supported on the perimeter columns of the grandstands' buildings.

The stadium has a circular shape with external diameter 211.00 m. The steel roof consists of 4 statically independent parts, each one resting on a simply supported main space-truss beam and on the perimeter columns. Each space-truss arch-shaped beam is supported on the concrete pylon. The span of the large beam is 160m and of the small 110m. The pylons are founded on piles while the concrete buildings have a strip foundation.



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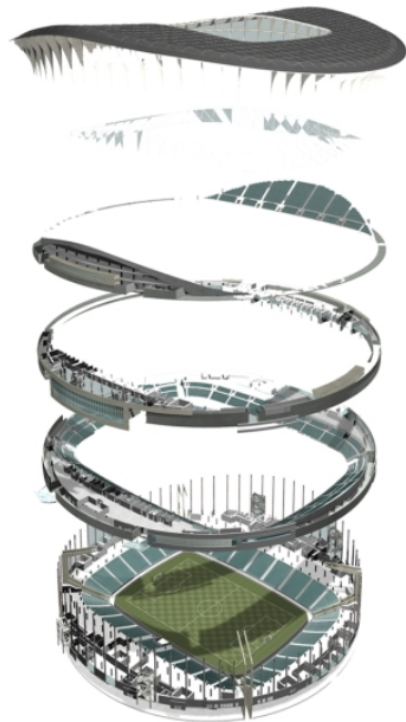
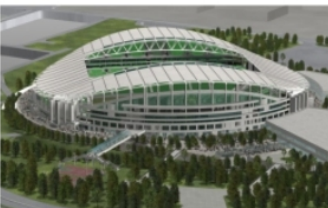
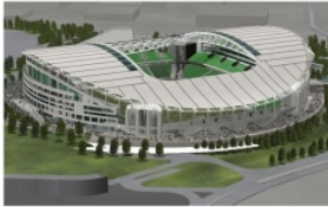
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Architectural 3d view



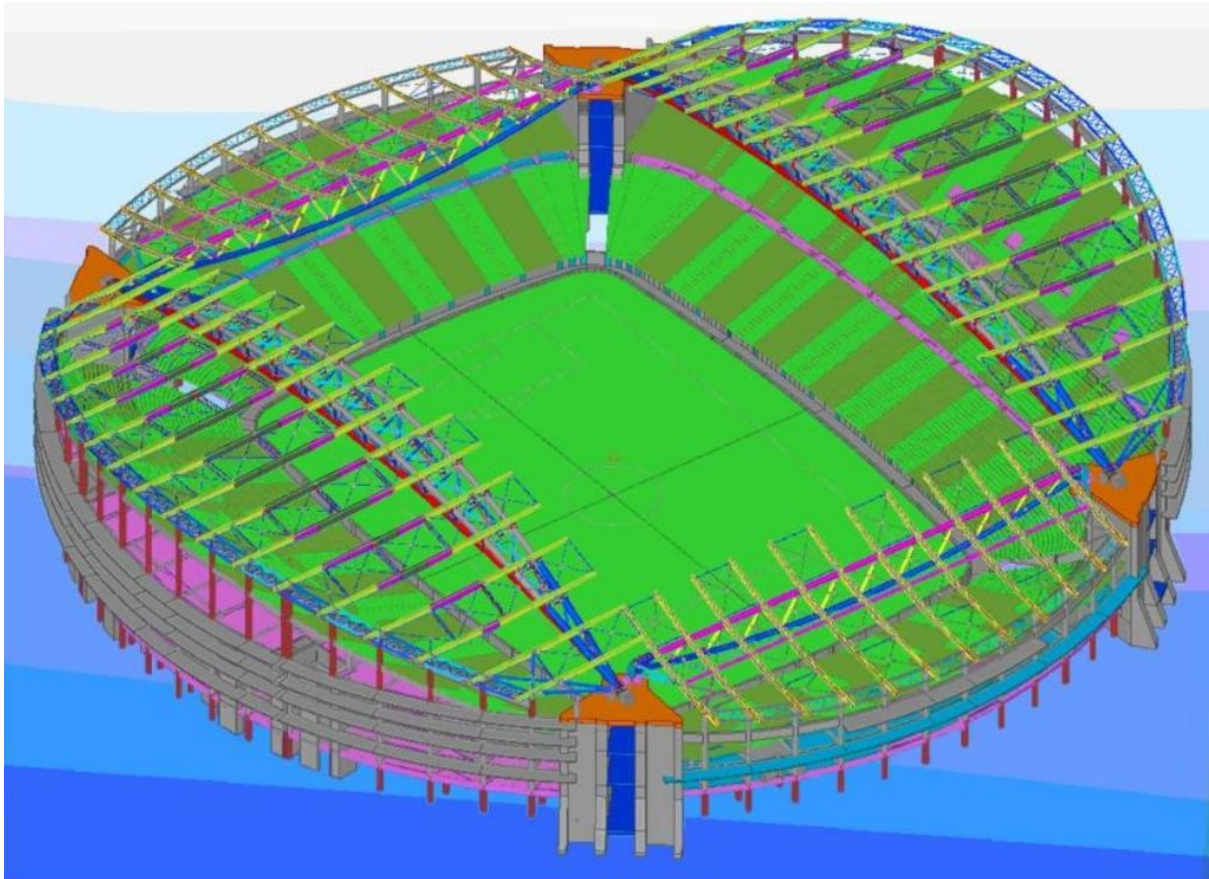


Architectural 3d view



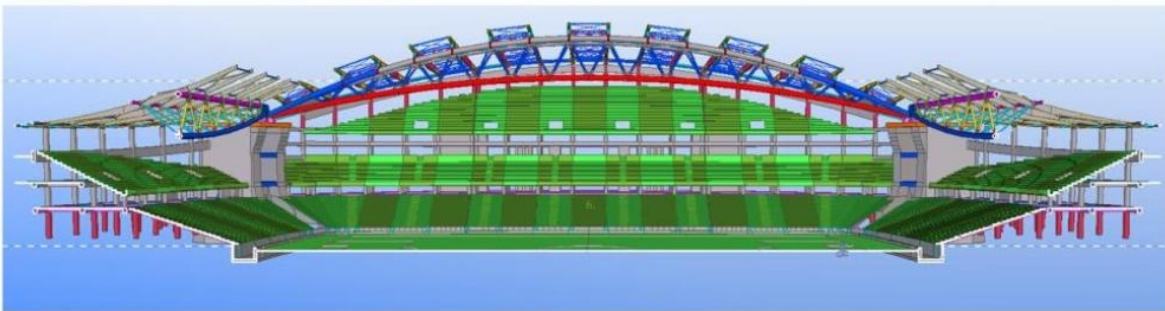
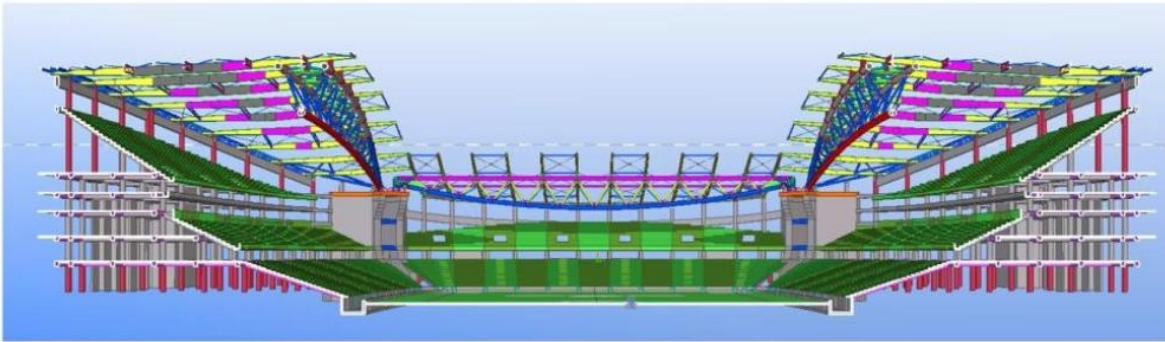


3d views of the stadium structural system



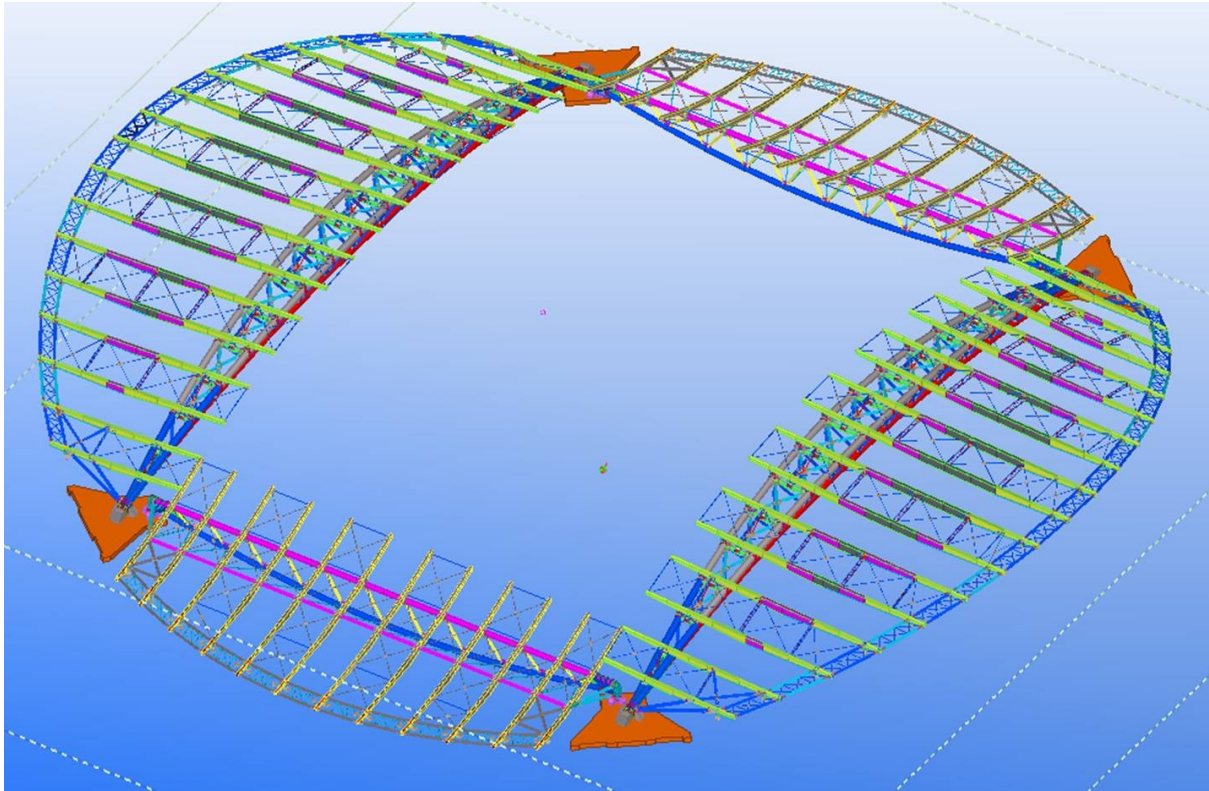


Sections of the structural system



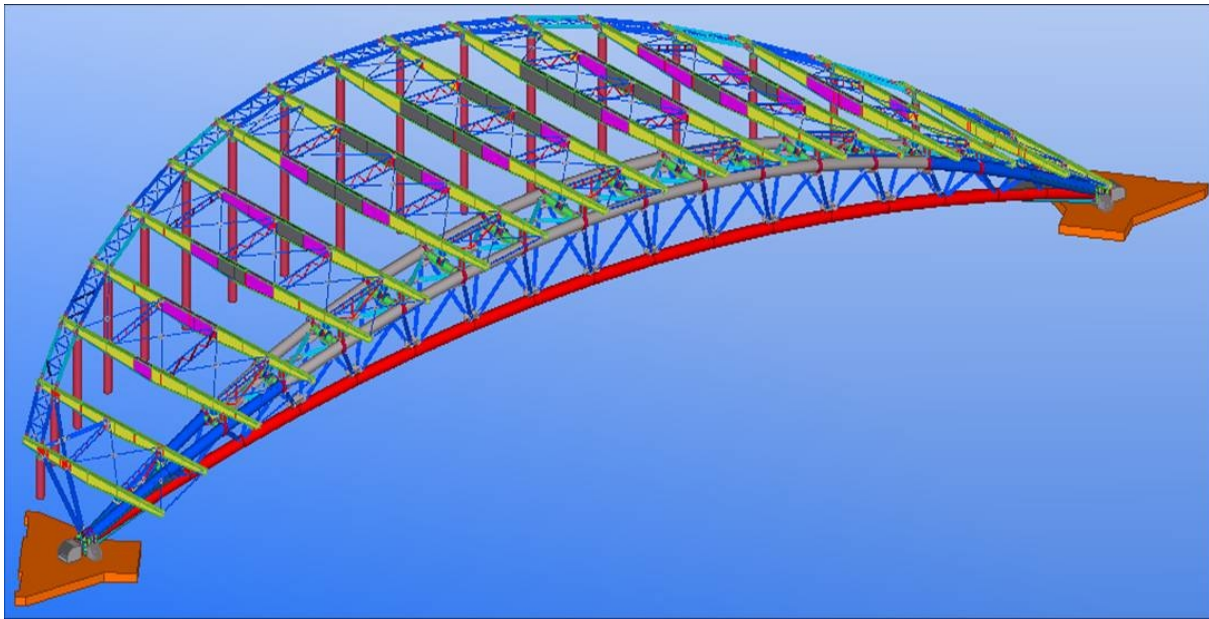


Steel Roof General Arrangement



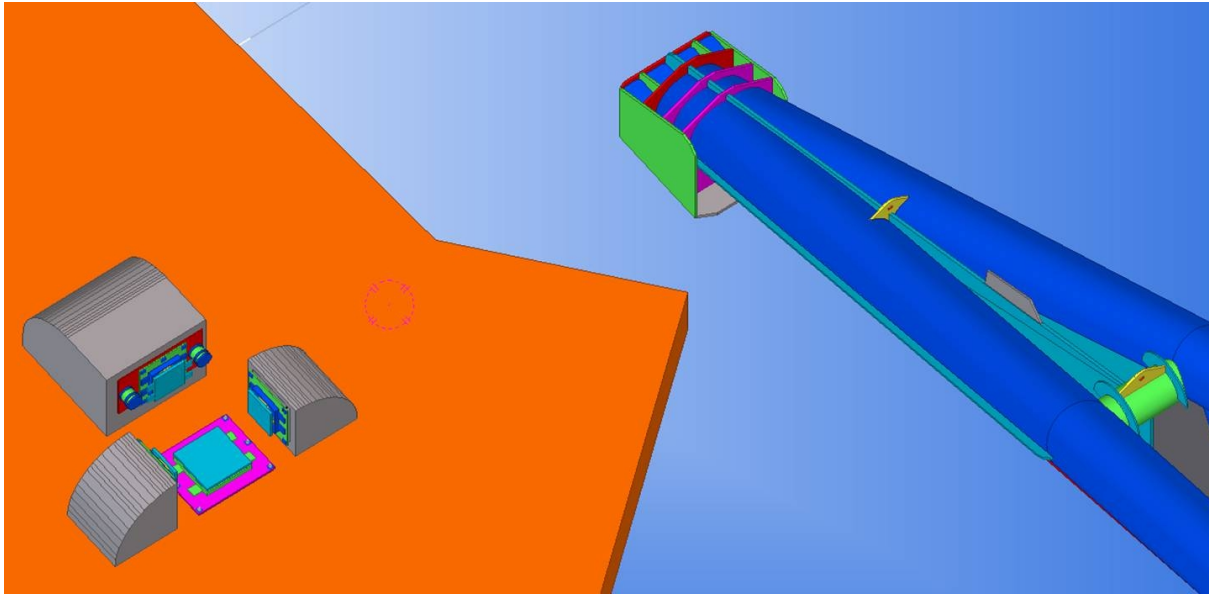


Large Roof Structure General Arrangement



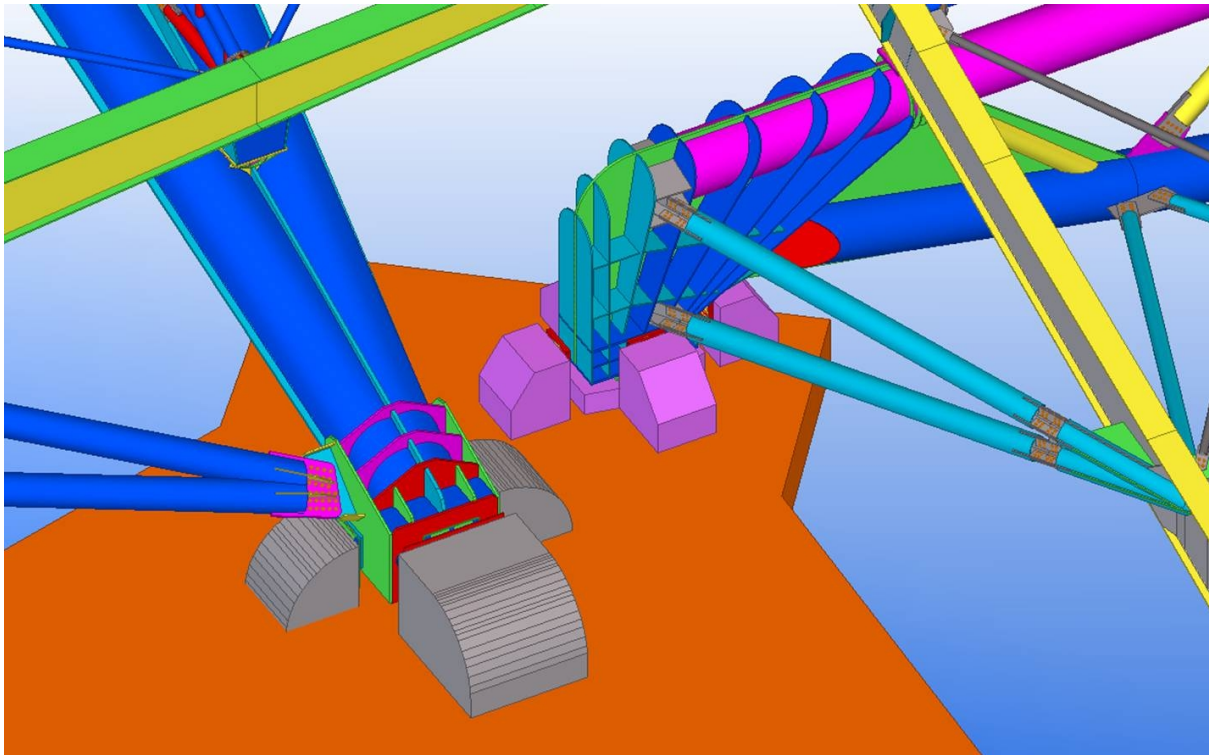


Roof supports on pylons



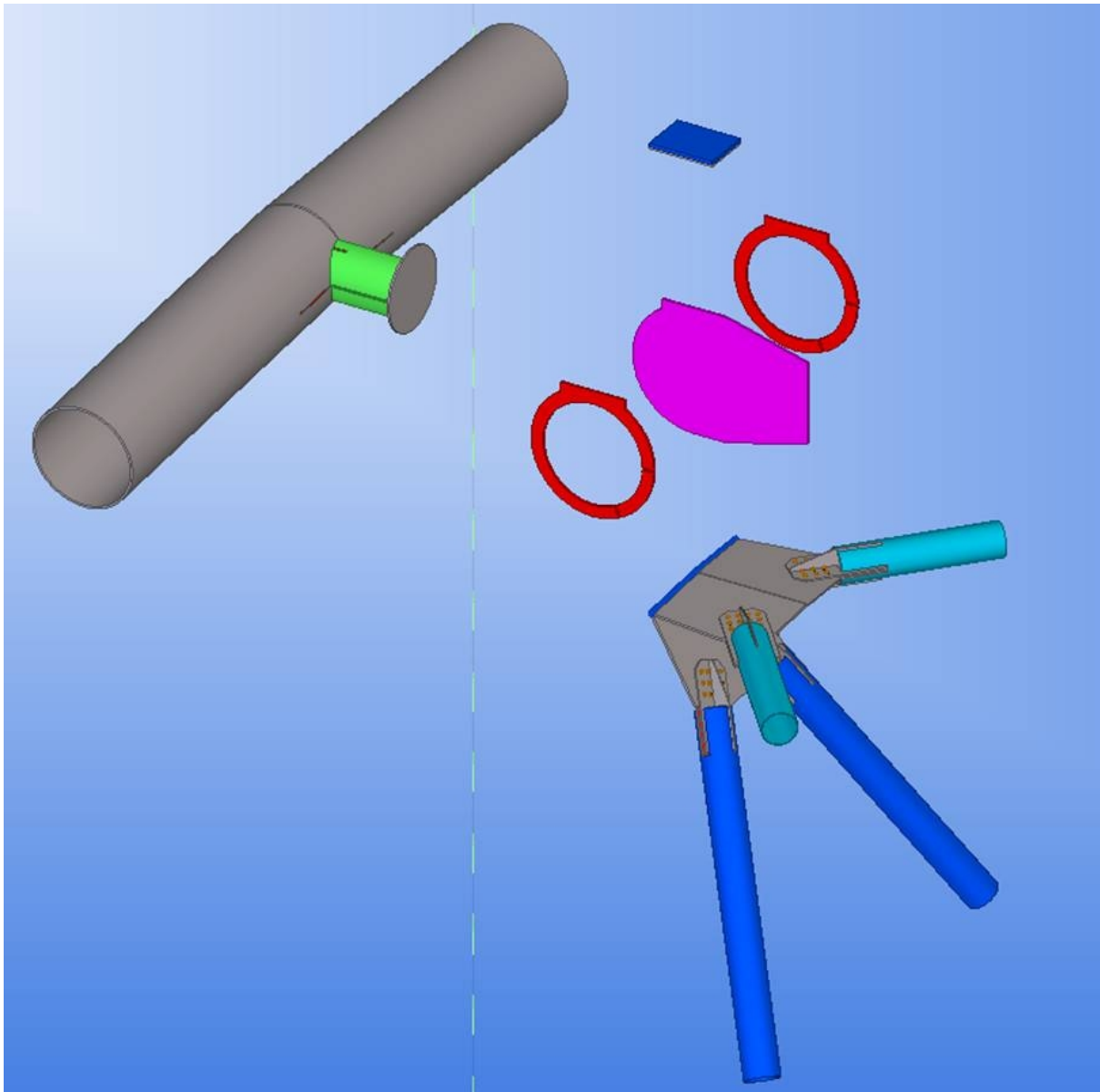


Support of Large and Small Trusses on pylon



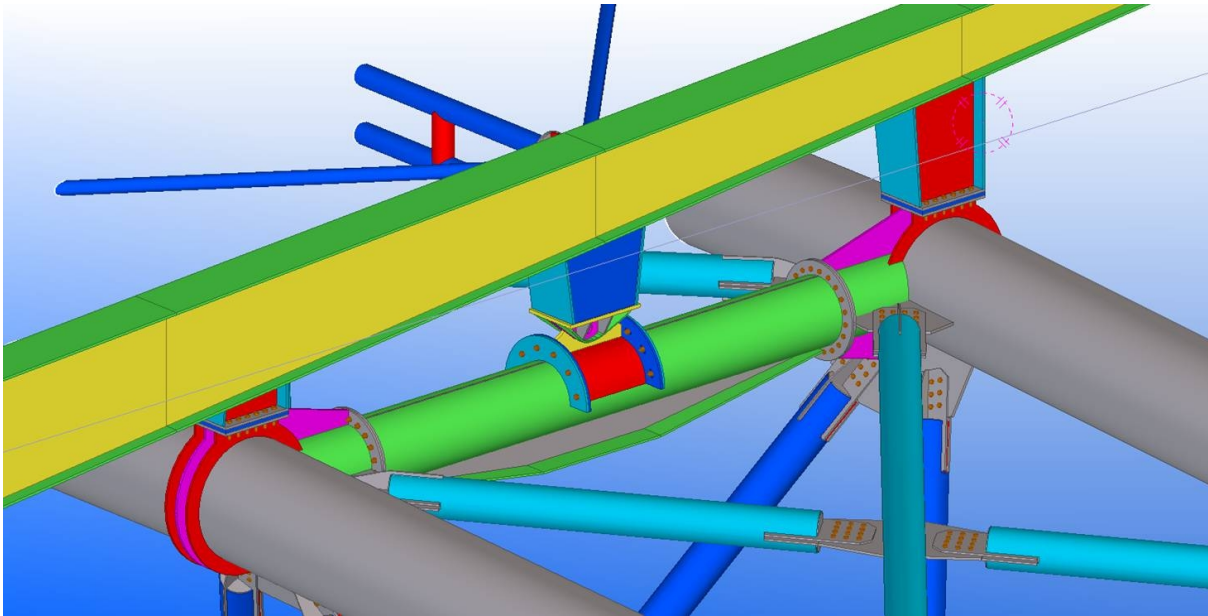


Connection of upper chord members



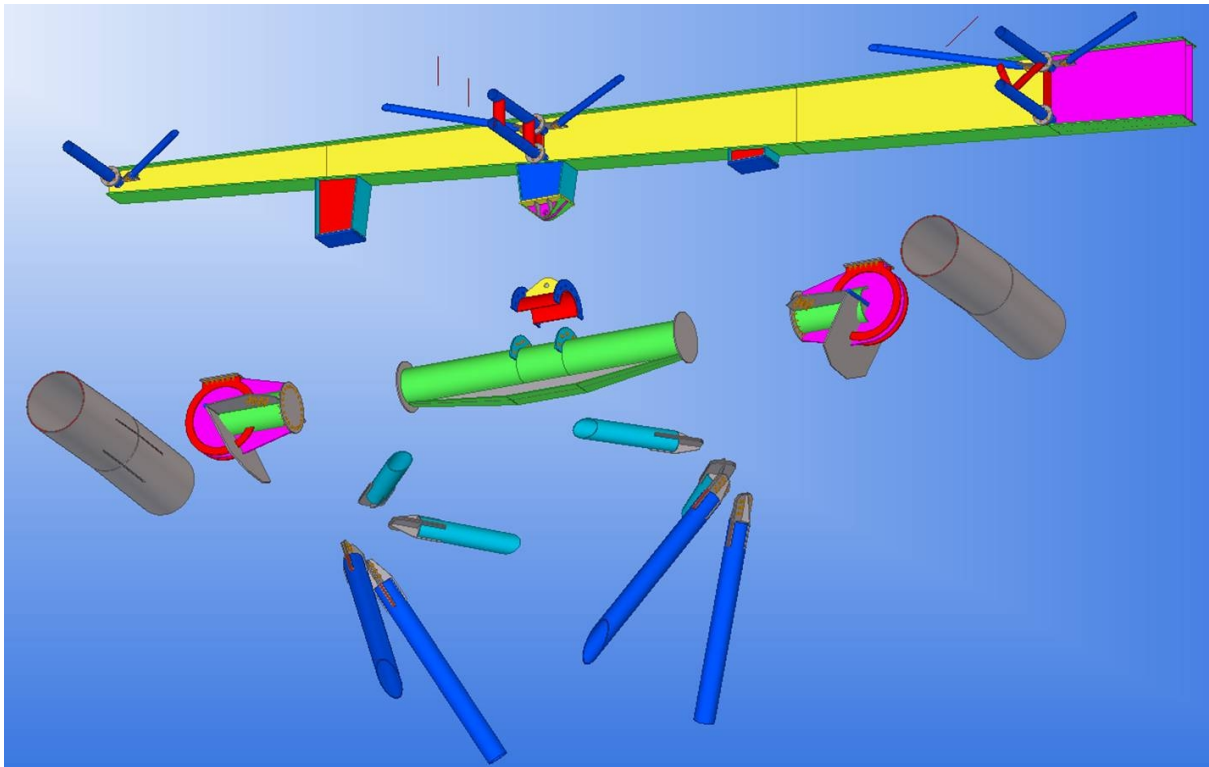


Support of main beam on the truss



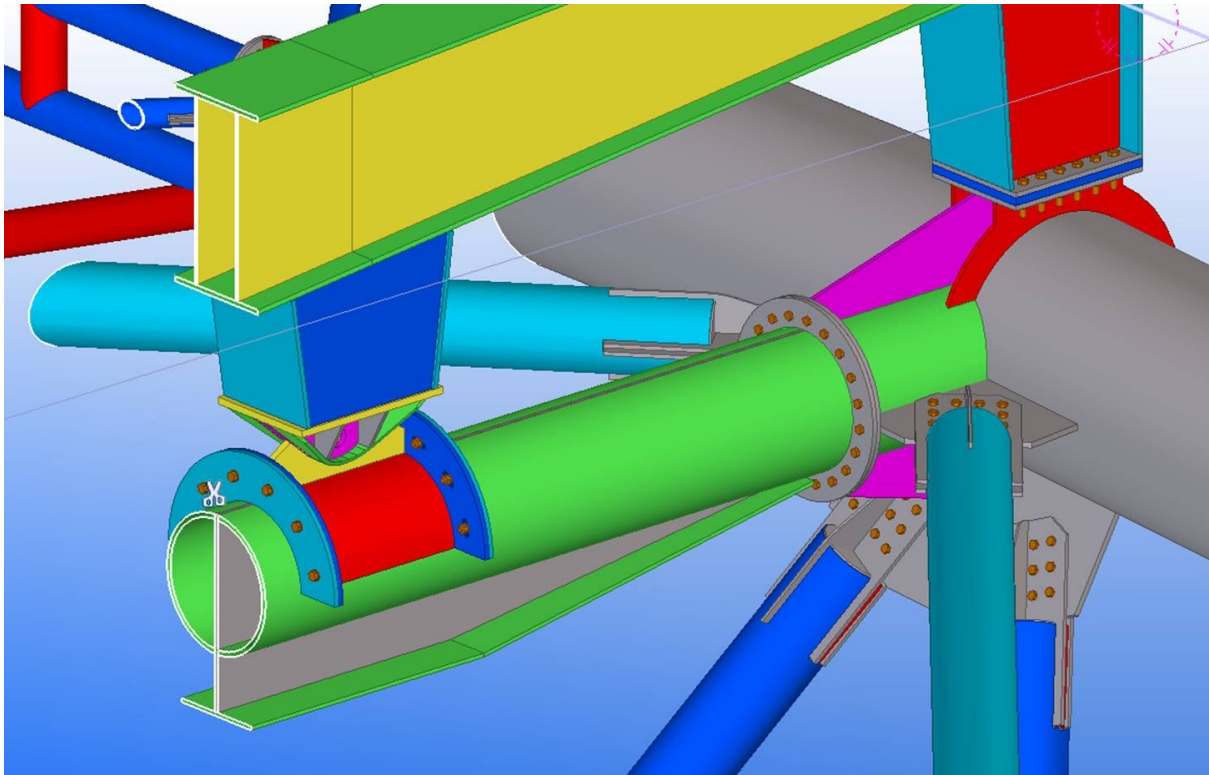


Support of main beams on the truss-Detail



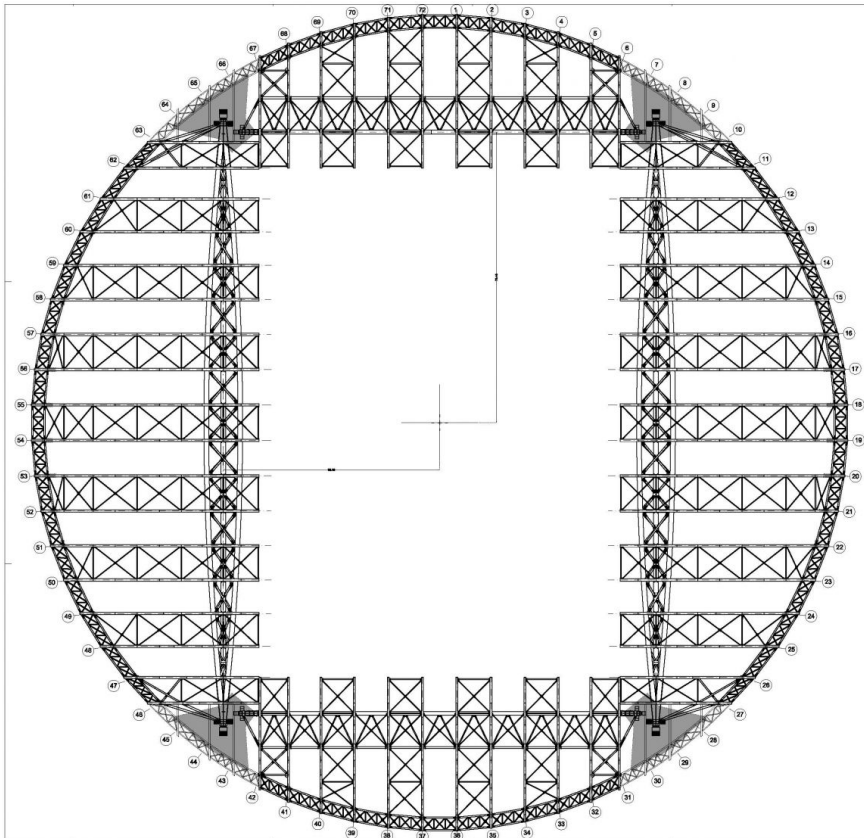


Support of main beam on the truss





Steel Roof General Arrangement





Sections

