

Membrane roof, Guarda, Portugal

The supporting steel framework consists of two triangular lattice girders positioned at an angle to each other in top view, with a chordal dimension of approx. 50 metres and a maximum height of approx. 21 metres and of circumferential double-guyed articulated columns.

The membrane is fastened to the two lattice girders to round tubes suspended from the lattice work. Due to this suspension of the membrane fixtures from the lattice work, the load onto the supporting binders is reduced for one-sided loads.

The membrane surface consists of a total of 3 partial segments.

The central segment between the two lattice girders is attached linearly to the two suspended round tubes and stretched by a gutter rope over the bisecting line of the complete structure. The two side fields also are fixed linearly on the round tubes below the lattice girders and stretched towards the circumferential articulated columns.



Project data

Statik / Statical Calculation	Ing.- Büro Teschner, Kosel
Konstruktion / Construction	Ing.-Büro Teschner, Kosel
ÜGF / Covered Area	2.100 m ²
Baujahr / Year of Construction	2004