Metropol Parasol is a wooden structure, designed by German architect Jürgen Mayer and located at La Encarnación square in Seville, Spain. It is one of the largest wooden parametric structures, with dimensions of 150 by 70 metres (490 by 230 ft) and an approximate height of 26 metres (85 ft).

Each of the 600 wooden pieces are individually shaped by a complex grasshopper algorithm. The concrete structure was molded by milling and then filling with concrete. The wood used was birch, imported from Finland, because of its straight qualities.

The project ran into many construction overruns but was finally completed in April 2011.
The Model

RENDERING: RHINO, GRASSHOPPER, V-RAY
Grasshopper definition
The Roof

Columns

Trimmed Brep
ITERATION 3