

CENTRE POMPIDOU METZ

CTE

Riedisheim, France

PROJECT DESCRIPTION

- Location: Metz, France
- Architecture office: CTE Design Office
- Dimensions: 3 superposed exhibition galleries of 86m length, 15m width and 8m height
- Specifications: The structure of this project also consists of a building with 7 levels, a studio and a circular shaped restaurant and a hexagonal tower with a steel cover rising to 77m height and a concrete/steel front



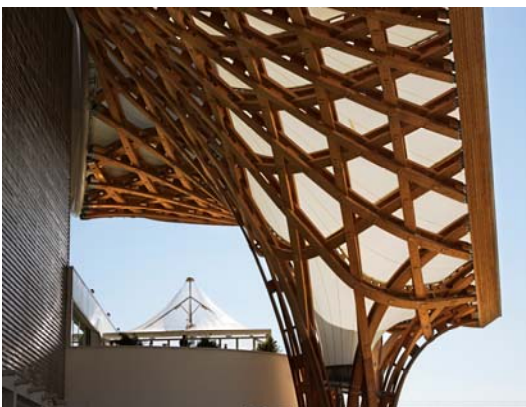
THE CHALLENGE

- The initial structural concept of the project was changed into a more rigid and monolithic structure for the exhibition galleries which are supporting a timber roof through hinged supports instead of fixed ones
- Interactivity management of the different structural parts especially mixing the concrete-steel-timber design



THE SOLUTION

- A 3D accurate model was created with Advance Design in order to calculate the structural distribution of loads and internal forces.
- Advance Design allowed us to take the construction steps in the structural analysis and design into account.



"The Centre Pompidou-Metz has been an important challenge in terms of structural analysis for our engineer's staff which called upon all their skills. Today, this project is one of the most exceptional references for our Design office alongside others such as the Grenoble Stadium located in a seismic area, the Strasbourg Hospital (108m long building without any dilatation joint), etc."

Mr Thierry HUMMEL,
CTE Design Office

USERS' BENEFITS

- Increase in productivity and drawing quality
- Improved project collaboration