

Carboniferous Museum

Ponferrada



CLIENT	CIUDEN: Ministry of energy
PROJECT DATE	2011
LOCATION	Ponferrada, Spain
FIELD OF ACTION	Construction Project

The Carboniferous Park-Museum makes part of the National Energy Museum located in Ponferrada (Spain). Its architecture pursuits the total integration of the building into the city landscape.

The singular and complex shape of the cover deck evokes the folds that occurred during the period of earth's history it is named after. This natural dome, was parametrically designed to optimize its solar performance, allowing a good illumination while preventing from direct exposure.

ines
ingenieros consultores

C/ Nuñez de Balboa, 120
3D, 28006 Madrid, Spain
Tel.: +34 915237633

ines@inesingenieros.com
www.ines.es/en



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The cover deck shelters an underlying greenhouse reminding the visitor of a natural valley. Moreover the pavilions underground level surrounding the main hall provides different workshop spaces for the visitors entertainment.

INES Consultant Engineers drew up the basic project and was responsible for the structural design of all of the resisting elements including screen walls, decks, foundations and it's outstanding natural dome.

This last one is made out of lightened steel strips with different curvatures and was designed to deal with the live load due to the use of pedestrians walking over it.

The complexity of the designed architecture led to the development of convoluted mesh models in order to verify the accomplishment of European standards in the structural field.

