Modeling, Construction Phases and Thermal Advanced Analysis of Concrete Dams

http://www.civilfem.com
Ribeiradio Dam

Complete finite element model of the dam. The gallery reinforcement was calculated using the tools of CivilFEM with ANSYS.

http://www.civilfem.com
Reis Dam

Various views of the finite element model of the Reis dam (Upstream, Downstream and body of the dam).

http://www.civilfem.com
The aim of this project was to increment the size of the dam by constructing downstream of the existing dam, a new dam of loose materials.
The dam is filled with water and plastic deformation is measured.

Yesa Dam, Zaragoza, Spain

http://www.civilfem.com
Yesa Dam, Zaragoza, Spain

Evolution of the safety factor against sliding of the old dam

http://www.civilfem.com
Yesa Dam, Zaragoza, Spain

Evolution of the relative displacement of the two dams

http://www.civilfem.com
Yesa Dam, Zaragoza, Spain

COMIENZO DE LA CONSTRUCCION EN EL MES DE SEPTIEMBRE

DISTRIBUCION DE TEMPERATURAS EN EL CUERPO DE PRESA

Tiempo: 7 Dias
Temperatura ambiente: 17.33 grados

DISTRIBUCION EN PRESA Y TERRENO

http://www.civilfem.com
Yesa Dam, Zaragoza, Spain

http://www.civilfem.com
The aim of the study was to measure the vertical stresses and separation between the dam and the stilling pool.