

CETAB

STRUCTURES

Building Envelope

Engineering civil engineering has evolved a lot these last years with seismic regulations and implementation of the Euro codes that disrupt the habits and reflexes of the engineers responsible for the structure design. This department uses several very specific skills and different from one another (concrete, metal, wood). We strive to develop our regulatory technology watch for referents experts in each field.

Expertise fields

- Reinforced and prestressed concrete
- Steelwork
- Wood frame

Skills

- Geotechnical, foundations, underpinning
- Structural modeling with finite-elements
- Complex concrete structure, stability and strength of materials calculation
- Stability calculation in structure fire
- Special construction and current concrete structures
- Techniques facades

Services

- Feasibility study and diagnostic
- Assistance with project management
- Project economics
- Technical expertise
- Project management
- Mission Performance Study

Our tools

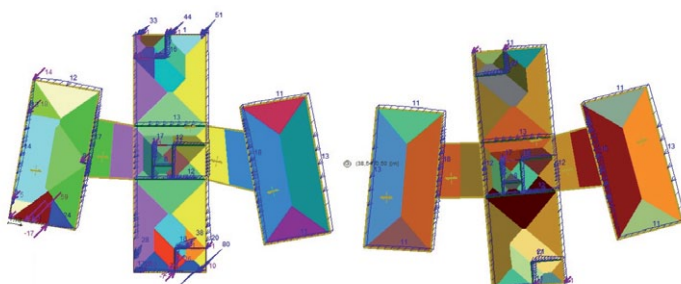
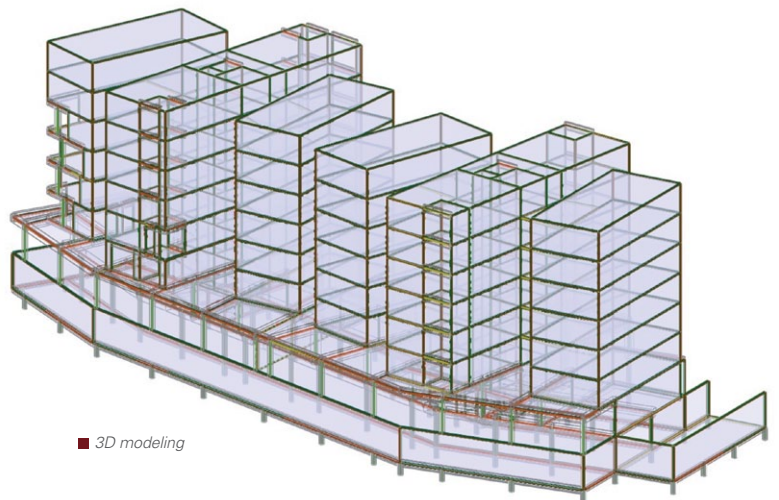
■ THE GENERAL SOFTWARE

- OFFICE: Office suite
- AUTOCAD, Revit: Drawing and technical design
- PROJECT: Planning
- SKETCHUP PRO: 3D Modeling
- PHOTOSHOP: Photo editor

■ THE SOFTWARE

dedicated Structures specialties

- ROBOTSTRUCTURALANALYSE: Building simulation for large and complex structures
- ARCHE: Design and production plan reinforced concrete reinforcement
- ADVANCE CONCRETE: Plan working drawings structure



■ Floor load distribution scheme on structural supports (Shells, beams, columns)

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STRUCTURES

Main references

- Concrete structures
 - INTERIKEA Bayonne (64)
 - BEM school (33)
 - Boiler plant of the dock basins in Bordeaux (33)
 - ...
- Steelwork
 - Thales, site of Mérignac (33)
 - High School Saint Vincent de Tyrosse (40)
 - High School Périgueux (24)
 - ...
- Wood frame
 - Gymnasium Camille Claudel in Latresne (33)
 - College FAL in Biarritz (64)
 - Gymnasium College Aliénor (33)
 - ...
- Building envelope
 - INTERIKEA Bayonne (64)
 - Arcachon market (33)
 - Building regulation Gare Saint Jean (33)
 - ...



■ Great height shells Boiler plant Bordeaux (33)



■ Technical facades and complex metal framework
Arcachon market (33)



■ Rehabilitation complex structure RC
Chaban Delmas Stadium

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